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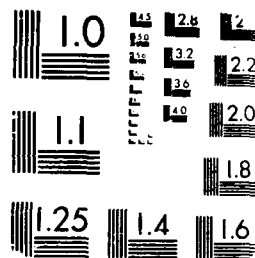
KAZAN USSR LIMITED SURFACE OBSERVATIONS CLIMATIC  
SUMMARY (LISOC) PARTS A-F (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT AFB IL JUN 88  
USAFETAC/DS-88/027 F/G 0/2

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MICROCOPY RESOLUTION TEST CHART



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RS275950

USAFETAC/DS-88/027

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OPERATING LOCATION - A

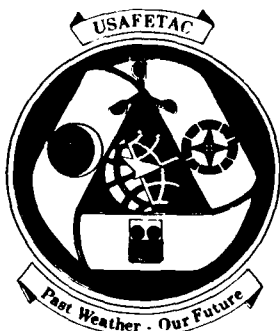
USAFETAC

Air Weather Service (MAC)

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"LIMITED SURFACE OBSERVATIONS"  
CLIMATIC SUMMARY "LISOCs"

KAZAN USSR  
N 55 47

E 049 11 ELEV 210 FT

MSC #275950

PARTS A - F

HOURS SUMMARIZED: SYNOPTIC HRS

PERIOD OF RECORD:

HOURLY OBSERVATIONS: NOV 77 - OCT 87

SUMMARY OF DAY DATA: NONE

JUN 22 1988

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**REPORT DOCUMENTATION PAGE**

**1a. Report Security Classification:** UNCLASSIFIED

**3. Distribution/Availability of Report:** Approved for public release; distribution unlimited.

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**6b. Office Symbol:**

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**7a. Name of Monitoring Organization:** USAFETAC

**7b. Address:** Scott AFB, IL 62225-5458

**11 Title:** (LISOCs) KAZAN USSR.

**12 Personal Author(s):**

**13a Type of Report:** Data Summary

**13b Time Covered:** Nov 77-Oct 87.

**14 Date of Report:** Jun 1988.

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**17 COSATI Codes:** Field--04, Group--02

**18 Subject Terms:** \*climatology \*weather meteorological conditions winds precipitation barometric pressure sky cover temperature relative humidity psychrometric data visibility ceiling Limited Surface Observations Climatic Summary(LISOCs); Kazan USSR; Union of Soviet Socialist Republics; USSR; RS275950.

**19 Abstract:** A statistical data summary of surface weather observation climatology: Kazan USSR. This summary is similar to the Revised Uniform Summary of Surface Weather Observations (RUSSWO), but is based on data collected from limited-duty weather observing stations; i.e., those that take weather observations less than 24 hours a day, 7 days a week. The summary is in five parts: PART 1, Weather Conditions and Atmospheric Phenomena; PART 2, Surface Winds; PART 3, Ceiling and Visibility; PART 4, Psychrometric Summaries; and PART 5, Pressure Summaries. Note that PART 2, Precipitation, is omitted. See USAFETAC/TN-83-001 (AD132186), An Aid For Using The Revised Uniform Summary of Surface Weather Observations (RUSSWO), for complete descriptions of contents and instructions for use.

**20 Distribution/Availability of Abstract:** Same as report.

**21 Abstract Security Classification:** UNCLASSIFIED.

**22a Name of Responsible Individual:** Marianne L. Cavanaugh

**22b Telephone:** (618)256-2625.

**22c Office Symbol:** USAFETAC/LDD.

**DD FORM 1473 UNCLASSIFIED**



**REVIEW AND APPROVAL STATEMENT**

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This document has been reviewed and is approved for publication.

FOR THE COMMANDER

A handwritten signature in cursive script, appearing to read 'Walter S. Burgmann', followed by a horizontal line.

WALTER S. BURGMANN

Scientific and Technical Information Program Manager



LIMITED SURFACE OBSERVATIONS CLIMATIC SUMMARY

STATION NAME: KAZAN USSR

STATION NUMBER: 275551

SUMMARIZED HOURS: SYNOPSIS 3-HOURLY

PERIOD OF RECORD

HOURLY OBSERVATIONS: NOV 77 - OCT 87

SUMMARY OF DAY DATA (TEMPERATURES ONLY): DEC 58 - OCT 87 **DATA NOT AVAILABLE**

SUMMARY OF DAY DATA (PART TIME): NONE

TIME CONVERSION LST TO GMT: -3

DATE PRODUCED: 30 DEC 87

ALL USERS OF THIS LSOCS MUST FAMILIARIZE THEMSELVES WITH THE SITE'S DATA LIMITATIONS PRIOR TO USING OR DISTRIBUTING THESE SUMMARIES. A SPECIAL CAVEAT PAGE PROVIDES IMPORTANT INFORMATION FOR ALL USERS. THIS CAVEAT PAGE IS LOCATED IN FRONT OF THE SUPPLEMENTAL SECTION.



LIMITED SURFACE OBSERVATIONS CLIMATIC SUMMARIES--LISOC5

SUPPLEMENTAL DATA: DATA DERIVED FROM EARLIER PERIODS IF AVAILABLE, AND/OR FROM ONE OR MORE REPRESENTATIVE SITES AND COMBINED BY A METEOROLOGIST.

STANDARD 7-HOUR TIME GROUPS: IN ALL SUMMARIES SHOWING DIURNAL VARIATIONS, WE SUMMARIZE DATA USING THE FOLLOWING EIGHT 3-HOUR TIME PERIODS IN LOCAL STANDARD TIME: 0000-0200, 0300-0500, 0600-0800, 0900-1100, 1200-1400, 1500-1700, 1800-2000, 2100-2300 LST.

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## PART A: WEATHER CONDITIONS AND ATMOSPHERIC PHENOMENA SUMMARIES

PART C: SURFACE WIND SUMMARIES

PART 5: TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

SUPPLEMENTAL DATA SECTION--SUMMARY OF DAY DATA

NOTE: THE FIRST AND LAST HOUR GROUPS MAY OR MAY NOT CONTAIN ALL THREE HOURS. SEE HOURS SUMMARIZED ON COVER OR STATION HISTORY SHEET TO DETERMINE WHICH HOURS ARE INCLUDED IN THESE TWO HOUR GROUPS.



IS COMPRISED OF  
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BE ALSO REFERRED TO  
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ON COVER OR

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and/or

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A-1



STATION NO ON SUMMARY		STATION NAME		LATITUDE		LONGITUDE		FIELD ELEV (FT)		CALL SIGN		WMO NUMBER	
275950		KAZAN, USSR		N 55 47		E 049 11		210 Ft		--		27595	
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY				
			FROM	TO			FIELD (FT)	HT. BARO.					
1	KAZAN, USSR	FGN	NOV 77	OCT 87	N 55 47	E 049 11	210 Ft	N/A	8				
NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE							
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND								
		UNKN	UNKN	UNKN	UNKN								

USAFETAC

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

CONTINUED ON REVERSE SIDE



NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	



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## WEATHER CONDITIONS AND ATMOSPHERIC PHENOMENA SUMMARIES

### WEATHER CONDITIONS SUMMARY

1. A PERCENTAGE FREQUENCY OCCURRENCE SUMMARY OF VARIOUS ATMOSPHERIC PHENOMENA AND OBSTRUCTIONS TO VISION.
2. DATA BASED ON HOURLY OBSERVATIONS.
3. SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

### DEFINITIONS:

THUNDERSTORMS: ALL REPORTED THUNDERSTORMS, TORNADOES AND WATERSPOUTS.

RAIN AND/OR DRIZZLE: ALL REPORTED RAIN AND OR DRIZZLE FALLING TO THE GROUND BUT NOT FREEZING.

FREEZING RAIN AND/OR FREEZING DRIZZLE (GLAZE): ALL REPORTED FREEZING RAIN OR FREEZING DRIZZLE.

SNOW AND/OR SLEET: SNOW INCLUDING SNOW PELLETS AND GRAINS, ICE CRYSTALS AND PELLETS, AND/OR SLEET (ICE PELLETS).

HAIL: ALL REPORTED HAIL.

ALL PRECIPITATION: THIS CATEGORY INCLUDES ALL OBSERVATIONS REPORTING PRECIPITATION. BECAUSE MORE THAN ONE TYPE OF PRECIPITATION MAY APPEAR IN A SINGLE OBSERVATION, THE SUM OF THE PERCENTAGES IN THE INDIVIDUAL COLUMNS MAY EXCEED THE PERCENTAGES IN THIS COLUMN.

FOG: ALL REPORTED FOG, ICE FOG AND GROUND FOG.

SMOKE AND/OR HAZE: ALL REPORTED SMOKE, HAZE AND ANY COMBINATION THEREOF.

BLOWING SNOW: ALL REPORTED BLOWING SNOWS INCLUDING DRIFTING WHEN REPORTED.

DUST AND/OR SAND: ALL REPORTED DUST, SAND, BLOWING DUST, BLOWING SAND AND ANY COMBINATION THEREOF. THE ATMOSPHERIC PHENOMENA SUMMARY (DAYS WITH) INCLUDES ONLY THOSE REPORTS WHEN THE PHENOMENA VISIBILITY LESS THAN 5/8 MILES (1000 METERS).

ALL OBSTRUCTIONS TO VISION: INCLUDES ALL REPORTS OF OBSTRUCTIONS TO VISION (FOG THRU DUST/SAND) AND BLOWING SPRAY. BECAUSE MORE THAN ONE PHENOMENA PER OBSERVATION MAY OCCUR, THE SUM OF THE INDIVIDUAL COLUMNS MAY EXCEED THIS COLUMN.

### NOTES:

1. A VALUE IN THE TABLES OF "10" INDICATES LESS THAN 10% OCCURRENCE WHICH IS USUALLY ONLY ONE OCCURRENCE

2. METAR STATIONS (BEGINNING IN JAN 1969) AND SYNOPTIC REPORTING STATIONS RECORDED ON THE AWS FORMS 17/10A AND TRANSMITTED LONGLINE ONLY THE HIGHEST ORDER OF ATMOSPHERIC PHENOMENA OBSERVED. BEGINNING IN JAN 1970, METAR STATIONS RECORDED ALL OBSERVED PHENOMENA BUT CONTINUED TO TRANSMIT ONLY THE HIGHEST ORDER. FOR EXAMPLE, IF THE OBSERVATION CONTAINED RAIN, FOG AND SMOKE, ALL THREE WILL APPEAR ON THE AWS FORMS 17/10A, BUT ONLY THE RAIN WAS TRANSMITTED LONGLINE. THEREFORE ONLY THE RAIN APPEARS IN OUR DATA BASE FOR HOURLY SUMMARIZATION. THIS PRACTICE AFFECTS THE PERCENTAGES IN THE TABLES.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN.

HOURS (LST)	TSTMS	RAIN L/OP GRIZZLE	FRZING RAIN L/OP GRIZZLE	SNOW L/OP SLEET	FAIL	% OPS WITH PRECIP	FOG	SMOKE L/OP HAZE	BLOWING SNOW	DUST L/OP SAND	% OPS W/CBST TO VISION	TOTAL OBS
01-02		.7		34.7		35.0	24.0	1.3	2.3		27.0	300
07-08		1.0	.3	35.5		36.5	25.3	.7	2.0		26.0	304
08-09		1.4	.3	39.3		40.3	24.1		2.0		26.1	295
09-11	.4	1.1	.4	27.6		28.7	29.4	.4	3.3		30.0	275
10-14		.7		25.2		25.8	26.6	.3	3.7	.3	31.0	296
15-17		.3		23.9		23.9	27.2	.3	3.5		31.1	305
18-20	.2	1.0	.3	28.5	.3	29.8	20.9	.7	2.0		23.5	302
21-23		.7	.3	32.7		33.0	20.5	.7	2.6		23.8	303
TOTALS		.1	.2	30.9	.0	31.6	24.7	.5	2.7	.0	27.8	2392

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB

HOURS (LST)	TSTMS	RAIN L/OP GRIZZLE	FRZING RAIN L/OP GRIZZLE	SNOW L/OP SLEET	FAIL	% OPS WITH PRECIP	FOG	SMOKE L/OP HAZE	BLOWING SNOW	DUST L/OP SAND	% OPS W/CBST TO VISION	TOTAL OBS
01-02		1.1		24.9		24.9	29.2	.4	.7		29.3	273
03-05		1.1	.4	27.7		28.1	31.7	.4	1.1		33.1	278
06-08	.4	.4	.7	29.5		30.2	29.5	.4	1.1		30.9	275
09-11		.4	.4	16.6		17.4	39.9	.4	.8		41.1	253
12-14		.4		16.0		16.4	32.7	.4	1.1		34.2	275
15-17				13.5		13.5	26.2	.4	1.1		27.6	275
18-20			.4	15.4		15.7	25.7	.4	1.4		27.5	280
21-23		.4		18.7		19.1	24.5	.7	1.4		26.6	276
TOTALS		.1	.2	20.3		20.7	29.8	.4	1.1		31.3	2187



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MTC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27592 STATION NAME: KAGAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR

FOUR TEST	ESTM	RAIN E/DR DRIZZLE	FREEZING RAIN E/DR DRIZZLE	SNOW E/DR SLEET	HAIR	% OBS WITH PRECIP	FOG	SMOKE E/DR HAIR	BLOWING SNOW	DUST E/DR SAND	% OBS W/OBS TO VISION	TOTAL OBS
1-2		1.7		14.4		15.1	21.4	.3			21.7	299
3-5		2.0		13.2		14.5	29.6		.3		29.9	304
6-8		1.3	.3	11.5		12.4	29.0				29.0	305
9-11		1.4	.7	8.7		9.9	27.0		1.1		28.0	276
12-14		.7	.2	7.0		8.0	24.1			.2	24.4	299
15-17		.7		7.3		7.6	14.0		1.3		15.6	302
18-20		4.0		8.3		8.6	15.5		.7		16.0	303
21-23		1.0		11.4		11.4	15.7		.3		16.4	306
TOTALS		1.4	.2	10.2		11.0	24.6	.3	.5	.0	25.1	2394

STATION NUMBER: 27592 STATION NAME: KAGAN USSR

PERIOD OF RECORD: 78-87  
MONTH: APR

FOUR TEST	ESTM	RAIN E/DR DRIZZLE	FREEZING RAIN E/DR DRIZZLE	SNOW E/DR SLEET	HAIR	% OBS WITH PRECIP	FOG	SMOKE E/DR HAIR	BLOWING SNOW	DUST E/DR SAND	% OBS W/OBS TO VISION	TOTAL OBS
1-2		4.4		7.1		10.9	14.3	.7			15.0	294
3-5		5.4		9.5		13.9	17.2	.3			17.6	296
6-8		4.5		9.3		10.1	25.9	.3			26.2	290
9-11		5.3		5.2		10.5	19.9	.3			20.2	287
12-14		5.4		5.8		10.5	10.8				10.6	295
15-17		1.5		5.4		10.5	7.1				7.1	294
18-20		5.4	.3	2.7		8.5	9.2				9.2	293
21-23		5.4		4.4		9.8	12.0				12.2	296
TOTALS		5.6	.3	6.1		10.5	14.4	.3			14.6	2345



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY

HOURS (LST)	TIME	RAIN E/OR DRIZZLE	FRZING RAIN E/OR DRIZZLE	SNOW E/OR SLEET	HAIL	% OPS WITH PRECIP	FOG	SMOKE E/OR HAZE	BLOWING SNOW	DUST E/OR SAND	% OPS W/OBST TO VISION	TOTAL OBS
00-02	1	5.7	5.9	.7		6.3	4.6	.7			5.3	304
02-05	1		4.9			4.9	7.9	.3	.3		8.5	305
05-08	1		5.0	.7		4.0	7.9	.3			8.3	302
08-11	1		4.9	.7		5.2	2.9	.3		.3	3.6	306
11-14	1	1.1	5.0	.7	.3	6.0	2.6				2.6	302
14-17	1	1.6	5.2	.3		6.6	2.0	.3			2.3	305
17-20	1	1.7	5.0	.3		5.4	1.7				1.7	296
20-23	1	.7	3.9	.3		4.2	4.2	.3		.3	4.9	306
TOTALS	1	.7	4.9	.5	.0	5.3	4.2	.3	.0	.1	4.7	2428

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUN

HOURS (LST)	TIME	RAIN E/OR DRIZZLE	FRZING RAIN E/OR DRIZZLE	SNOW E/OR SLEET	HAIL	% OPS WITH PRECIP	FOG	SMOKE E/OR HAZE	BLOWING SNOW	DUST E/OR SAND	% OPS W/OBST TO VISION	TOTAL OBS
00-02	1	0.7	5.4			5.4	5.0				5.0	298
02-05	1	1.7	7.0			7.8	16.6				16.6	295
05-08	1	.7	7.1		.3	7.4	15.2	.3			15.5	296
08-11	1	.7	5.0		.7	6.4	2.7				2.7	295
11-14	1	1.1	6.4			6.4	1.7			.3	2.0	297
14-17	1	5.6	10.9			10.9	.7				.7	294
17-20	1	5.1	10.1		.3	10.4	1.7			.3	2.0	297
20-23	1	2.7	5.5			5.5	4.4				4.4	295
TOTALS	1	4.0	7.2		.0	6.3	5.0	.0		.1	6.1	2367



GLOBAL CLIMATELOGY BRANCH  
USAFETAG  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27590 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87  
MONTH: JUL

HOURS (EST)	TSTMS	RAIN L/GR DRIZZLE	FRZING RAIN L/GR DRIZZLE	SNOW L/GR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE L/GR HAZE	BLOWING SNOW	DUST L/GR SAND	% OBS W/CBST TO VISION	TOTAL OBS
7-10	3.4	8.4				9.1	7.2				7.2	307
10-13	1.4	3.6				3.6	18.9	.3		.3	19.5	307
13-16	1.7	4.6				4.6	17.4	.3			17.8	304
16-19	1.6	6.6			.3	6.6	4.5				4.5	308
19-22	1.1	6.3				6.3	1.7				1.7	304
22-1	1.1	11.6				11.6	.3				.3	302
1-4	4.1	6.4				6.4	.7				.7	305
4-7	1.6	6.6				6.6	4.2				4.2	308
TOTALS	2.4	6.6			.3	6.6	6.8	.1		.6	6.9	2445

STATION NUMBER: 27590 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87  
MONTH: AUG

HOURS (EST)	TSTMS	RAIN L/GR DRIZZLE	FRZING RAIN L/GR DRIZZLE	SNOW L/GR SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE L/GR HAZE	BLOWING SNOW	DUST L/GR SAND	% OBS W/CBST TO VISION	TOTAL OBS
7-10	2.4	7.2				7.2	7.5	.3			8.2	305
10-13	1.1	6.3				6.3	14.4				16.4	304
13-16		4.3				4.3	22.4				22.4	303
16-19	1.7	6.9				6.9	6.9				6.9	305
19-22	1.7	6.6				6.6	2.0				2.0	302
22-1	4.6	4.6				6.6	1.3			.7	2.0	304
1-4	1.1	7.2				7.2	1.6			.3	2.0	305
4-7	1.1	7.5				7.5	4.2				4.3	305
TOTALS	1.7	6.6				6.6	8.1	.6		.1	6.3	2433



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: SEP

HOURS (LST)	TIME	RAIN E/OP DRIZZLE	FRZING RAIN E/OP DRIZZLE	SNOW E/OP SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE E/OP HAZE	BLOWING SNOW	DUST E/OP SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02		11.4		.3		11.8	14.9				14.9	289
03-05		10.2				10.2	21.8				21.8	293
06-08		9.6		.3		6.2	31.5			.3	31.6	292
09-11		9.1		1.0		9.2	18.3				18.3	295
12-14		11.5		.7		12.2	6.6				6.6	286
15-17		13.6		.3		13.9	3.4				3.4	294
18-20		13.0		.4		13.0	9.8	.7			9.5	285
21-23		11.2				11.2	10.9			.3	11.2	294
TOTALS		10.6		.4		11.0	14.5	.1		.1	14.7	2328

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: OCT

HOURS (LST)	TIME	RAIN E/OP DRIZZLE	FRZING RAIN E/OP DRIZZLE	SNOW E/OP SLEET	HAIL	% OBS WITH PRECIP	FOG	SMOKE E/OP HAZE	BLOWING SNOW	DUST E/OP SAND	% OBS W/OBST TO VISION	TOTAL OBS
00-02		9.9		6.6		11.2	27.0	.3			27.3	304
03-05		4.6	.7	7.5		12.4	20.4	.3			20.7	306
06-08		9.7	.7	7.7		14.4	34.8				34.8	299
09-11		9.0	.3	7.8		11.4	30.4	.3			30.7	306
12-14		9.0		9.0	.3	10.1	23.5	.3			23.8	298
15-17		9.9		9.6		11.1	19.0				19.0	306
18-20		7.0		7.0		12.0	21.9	.7		.3	22.9	301
21-23		4.4		9.7		9.8	22.2	.3			22.6	297
TOTALS		9.0	.2	6.6	.3	11.6	26.2	.3		.0	26.5	2417



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV

HOURLS (LST)	TSMS	RAIN 6/0R DRIZZLE	FRZING RAIN 6/0R DRIZZLE	SNOW 6/0R SLEET	HAIR	% OBS WITH PRECIP	FOG	SMOKE 6/0R HAZE	BLOWING SNOW	DUST 6/0R SAND	% OBS W/CBST TO VISION	TOTAL OBS
00-02	.3	3.4		23.1		25.9	26.2		.7		26.9	290
03-05		5.5		25.6		28.7	26.6		1.0		27.6	293
06-08		3.6		24.7		27.8	20.2	.3	.7		31.3	291
09-11		3.2		20.4		22.5	22.3		.4		32.6	285
12-14		2.7	.3	19.9		22.0	29.6		.7		30.2	291
15-17		2.7	.3	14.5		17.2	30.7				30.7	296
18-20		2.7	.7	18.7		21.4	27.2		1.0		28.2	294
21-23		5.7	.3	22.5		25.8	24.2		.7		24.8	298
TOTALS	.3	3.7	.2	21.2		23.9	28.4	.3	.7		29.0	2338

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC

HOURLS (LST)	TSMS	RAIN 6/0R DRIZZLE	FRZING RAIN 6/0R DRIZZLE	SNOW 6/0R SLEET	HAIR	% OBS WITH PRECIP	FOG	SMOKE 6/0R HAZE	BLOWING SNOW	DUST 6/0R SAND	% OBS W/CBST TO VISION	TOTAL OBS
00-02		1.0	.3	35.1		36.1	28.1	.3	.3	.7	29.5	302
03-05		2.0		33.7		35.3	32.3		.7		33.0	303
06-08	.7	2.3	.3	33.4		36.1	27.4	.3	1.3	.3	29.4	299
09-11	.4	1.4		17.7		18.7	23.2	.4	1.4		35.0	283
12-14		2.7		16.0		17.0	23.0	.3	2.3	.3	36.0	300
15-17		1.0		16.9		17.9	22.2	.3	2.0		34.5	307
18-20		1.0		25.0		25.3	29.3	.3	.7		30.3	304
21-23		1.0		39.4		21.0	29.4		.7		30.1	306
TOTALS	.3	1.4	.1	26.0		27.2	28.6	.2	1.2	.2	32.2	2404



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-87  
MONTH: ALL

		MONTHLY ALL												
	HOURS (LST)	TSTMS	RAIN E/0R DRIZZLE	FRZING RAIN E/0R DRIZZLE	SNOW E/0R SLEET	PALE	% OPS WITH PRECIP	FOG	SPOKE E/0R HAZE	BLOWING SNOW	DUST E/0R SAND	% OPS W/OBST TO VISION	TOTAL OBS	
JAN	ALL	1	1.1	1.9	1.2	30.9	1.0	31.6	24.7	1.5	2.7	1.0	27.8	2382
FEB		1	1.1	1.5	1.2	20.3		20.7	29.8	1.4	1.1		31.3	2187
MAR		1	1.0	1.4	1.2	10.2		11.0	24.6	1.0	1.5	1.0	25.1	2394
APR		1	1.0	1.0	1.0	6.1		10.8	14.6	1.2			14.8	2345
MAY		1	1.7	4.4		1.5	1.0	5.3	4.2	1.3	1.0	1.1	4.7	2428
JUN		1	1.3	8.1			1.2	8.3	6.0	1.0		1.1	6.1	2367
JUL		1	1.6	6.5			1.0	6.5	6.8	1.1		1.0	6.9	2445
AUG		1	1.1	6.6				6.6	8.1	1.0		1.1	8.3	2433
SEP		1	1.4	10.6		1.4		11.0	14.5	1.1		1.1	14.7	2328
OCT		1		5.6	1.2	6.6	1.0	11.6	26.2	1.3		1.0	26.5	2417
NOV		1	1.0	3.7	1.2	21.2		23.9	28.4	1.0	1.7		19.0	2338
DEC		1	1.1	1.4	1.1	26.0		27.2	30.6	1.2	1.2	1.2	32.2	2404
TOTALS		1	1.7	4.6	1.1	10.2	1.0	14.5	18.2	1.2	1.5	1.1	19.0	28468



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SEE SUPPLEMENTAL SECTION (SUMMARY OF DAY DATA) FOR THESE SUMMARIES.



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BIVARIATE PERCENTAGE FREQUENCY TABULATIONS OF SURFACE WINDS

DATA DERIVED FROM HOURLY DATA.

PRESENTED ARE THE PERCENTAGE FREQUENCY OF WIND DIRECTION TO 16 COMPASS POINTS, CALM AND VARIABLE VERSUS WIND SPEED IN KNOTS IN INCREMENTS OF BEAUFORT CLASSIFICATIONS.

PERCENTAGES ARE SHOWN BY BOTH DIRECTIONS AND SPEED, AND IN ADDITION THE MEAN WIND SPEED IS GIVEN FOR EACH DIRECTION.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED)..

A SEPARATE ANNUAL TABLE PRESENTS THE SAME BIVARIATE DISTRIBUTIONS WITH IMPOSED CEILING/VISIBILITY LIMITATIONS: WHEN VISIBILITY IS EQUAL TO OR GREATER THAN 1 1/2 MILES, THE CEILINGS ARE 200 TO 1400 FEET AND/OR WHEN THE CEILING IS EQUAL TO OR GREATER THAN 200 FEET, THE VISIBILITIES ARE 1/2 THROUGH 2 1/2 MILES.

A PERCENTAGE VALUE OF ".0" IN THESE TABLES INDICATES ONE OR MORE OCCURRENCES AMOUNTING TO LESS THAN .05%.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: JAN HOURS(IST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.3	1.7	1.7							3.7	10.7
NNE		.7	1.3	.3							2.0	9.0
NE			.3	2.0							2.3	12.9
ENE		.7	1.7								2.3	8.3
E		.3	1.0	2.7							4.0	12.0
ESE		.7	2.7	2.3							5.7	10.4
SE		.7	1.7	7.0	2.0	.3					11.7	13.9
SSE		1.0	2.7	7.3	2.0	1.0	.7				14.7	14.8
S		.7	2.0	10.7	1.7	.3		.3			15.7	14.1
SSW		.7	1.0	2.7	.7	.3					5.3	12.8
SW		.3	.3	2.7							3.3	12.6
WSW		.7	1.7	2.3	.3	.3					4.7	13.1
W		1.0	.3	5.0	.3						6.7	12.2
WNW		.7	1.3	2.7							4.7	11.4
W		.7	1.0	1.0	.7						3.0	11.9
WNW		.7	.3	1.3							2.0	11.7
VARIABLE												
CALM	////////////////////										8.3	////
TOTALS		5.7	20.7	51.7	7.7	2.3	.7	.3			100.0	11.8

TOTAL NUMBER OF OBSERVATIONS: 300



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: JAN HOURS(LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.7	1.7	1.3	.3							4.3	10.5
NNE		.7	1.3	1.0								3.0	9.6
NE		.7	.3	1.3								2.3	11.1
ENE			.7	1.0	.3							2.0	13.5
E			1.7	1.3								3.0	10.7
ESE		1.0	1.7	1.7								4.3	9.4
SE		1.7	1.7	7.0	1.7	.3						12.3	13.0
SSE		.3	1.3	5.3	2.7	1.0	.7					11.3	15.7
S		.7	3.3	10.6	2.0	.7	.3					17.6	13.9
SSW		1.0	1.0	2.7	1.3							6.0	12.6
SW		.7	1.0	2.7								5.0	12.3
WSW		.7		1.3	.7	.3						3.0	14.6
W		.7	2.0	3.3	.7							6.0	11.7
WNW		1.0	2.7	2.0								5.6	10.6
NW			1.0	1.3	.3							2.7	11.6
NNW		.3	1.0	.3		.3						2.0	12.2
VARIABLE													
CALM	////////////////////											9.6	////
TOTALS		9.6	22.3	45.2	9.4	2.7	1.0					100.0	11.5

TOTAL NUMBER OF OBSERVATIONS: 751



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM POIRLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(IST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.7	.3	2.4								3.4	11.2
NNE		1.7	2.0	1.0								4.1	8.8
NE			1.7	.7								2.4	10.6
ENE				.7	.3							1.0	14.3
E		1.7	1.7	1.7								4.4	10.0
ESE			2.0	2.1	.3							4.4	12.3
SE		.7	1.7	6.5	1.0	.3						9.9	13.7
SSE			3.7	5.1	1.7	1.7						11.6	13.9
S		1.7	2.4	9.2	1.7	.3						15.3	13.1
SSW		1.0	1.7	2.4	.7	.7	.7					6.8	14.3
SW			1.0	2.0	1.0							4.1	13.6
WSW		.7	1.0	2.1			.3	.3				5.4	14.0
W			1.4	4.4	.3							6.1	12.4
WNW		1.7	2.4	1.4								4.8	9.6
W		1.7	1.0	1.0	.3							3.4	9.3
WNW		.7	.7	1.0	.3							2.4	11.9
VARIABLE													
CALM	////////////////////											9.5	////
TOTALS		5.8	24.8	45.6	7.8	2.7	1.4	.3				100.0	11.3

TOTAL NUMBER OF OBSERVATIONS: 294



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FAIRLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS/ST: 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.1		1.5							2.6	11.1
NNE		.4	.4	1.1							1.8	10.4
NE		.7	.4	1.5							2.6	11.1
ENE		.4	.7	.7	.4						2.2	12.2
E			.7	1.5							2.2	12.0
ESE			2.9	2.2							5.1	10.9
SE		.7	2.2	2.6	2.2						12.7	13.4
SSE		.4	2.5	2.3	1.8	.7			.4		13.5	14.8
S		.7	2.9	17.2	2.2	.7	.7				17.5	14.3
SSW		1.1	1.5	.4		.4					3.3	10.6
SW			2.2	1.5	.7						4.4	11.5
WSW		.4	1.8	1.5	.4						4.2	11.7
W		.4	1.5	2.6	.4	.4					6.2	13.3
WNW		.7	1.5	1.1							3.3	10.2
W		.4	1.1	1.8	.4						3.6	12.3
WNW			.7	1.4		.4					2.9	12.9
VARIABLE												
CALP	////////////////////										12.4	////
TOTALS		7.7	22.3	45.1	8.4	2.5	.7		.4		100.0	11.3

TOTAL NUMBER OF OBSERVATIONS: 775



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 275951 STATION NAME: KAZAN, USSR

PERIOD OF RECORD: 78-97  
MONTH: JAN HOURS (LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.7	.3	1.7							2.4	12.3
NNE		.0	1.3	1.7							3.4	9.8
NE		.7	1.0	1.0							2.4	10.9
ENE		.7	.7								1.0	8.7
E			.3	2.7							3.0	12.0
ESE		.7	1.7	0.0							4.0	10.5
SE		1.3	2.4	6.1	1.7	.7					11.8	12.9
SSE		1.7	2.4	7.1	2.7	1.7	.3				14.5	14.2
S			2.7	4.4	3.0	.7					14.8	14.4
SSW		.7	.7	0.4	.3	.7		.3			4.7	15.5
SW		1.0	1.3	1.0	1.0						4.4	11.0
WSW			1.0	0.0							4.0	12.7
W		.0	1.7	0.7	.3	.3	.3				7.1	12.2
WNW		.7	.3	0.7	1.0						4.4	14.4
W				1.0	.3						2.4	14.4
WNW		.7	1.2	1.3	.3						7.7	11.0
VARIABLE												
CALC	////////////////////										12.1	////
TOTALS		2.1	19.0	45.5	10.6	3.7	.7	.3			100.0	11.4

TOTAL NUMBER OF OBSERVATIONS: 297



PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 7A 37  
MONTH: JAN HOURS(EST): 1500-1700

TOTAL NUMBER OF OBSERVATIONS: 32



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 07590 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: JAN HOURS/EST: 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-7	8-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-60	61-66		
0		.7	1.3	2.6	.7							5.0	12.5
90			1.0	.7								3.6	9.8
180		.7	.3	.7								1.7	10.4
270		.7	.3	1.0								1.7	10.4
30		.7	1.7	2.3	.3							5.0	10.9
60		.7	1.7	2.3	.3	.7						5.6	12.6
90		.7	1.0	4.3	1.3	.3						11.6	14.0
120		1.0	2.6	5.3	3.0	.3	.7	.3				13.2	15.0
150		1.3	3.3	2.3	2.3	.3						14.6	12.5
180		.7	.7	3.6								5.0	12.1
210		.7	2.0	2.0	.3							5.0	11.0
240		.7	1.7	2.6	.3							5.0	12.2
270		.7	.7	2.0	.3							4.0	13.4
300			.7	2.6	.7							4.0	13.0
330			2.0	2.6								4.6	11.6
360		.3	.3	.7								2.0	9.7
VARIABLE													
GRAND TOTAL												9.6	11.5
TOTAL		6.7	22.3	47.7	6.6	1.7	.7	.3				100.0	11.5

TOTAL NUMBER OF OBSERVATIONS: 702



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(IST): 2100-2500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
0		.7	1.0	3.3	.3						5.3	12.2
10			1.7	.3							1.7	10.4
20		.7	1.7	.7	.7						3.7	10.9
30		.7	.7	.7							1.3	11.0
40		.7	1.3	7.0	.3						9.7	10.9
50		.7	1.7	2.7							4.7	11.6
60		.7	2.0	6.7	1.0	1.7					11.3	13.6
70		1.7	1.7	9.0	1.7		.7				14.7	14.1
80		.7	3.0	6.3	1.7	1.3					14.7	13.9
90		.7	.7	4.0	.3						5.7	12.9
100		1.3	.7	2.7							4.7	11.1
110		.7	1.0	7.7	.3						9.3	12.0
120		.7	1.0	4.0							5.7	11.9
130			1.3	2.3							3.7	12.5
140		.7	1.3	1.3	.3						3.3	11.5
150		.7	1.3	1.7							2.7	10.0
VARIABLE												
CALM											6.3	////
TOTALS		9.7	21.3	57.7	9.7	2.3	.7				107.0	11.8

TOTAL NUMBER OF OBSERVATIONS: 300



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.6	1.0	2.1	.0							3.9	11.5
NNE		.4	1.5	1.0								2.9	9.8
NE		.6	.8	1.0	.1							2.4	10.7
ENE		.7	.6	.7	.1							1.6	11.3
E		.5	1.2	2.1	.1							3.9	11.1
ESE		.4	2.0	2.7	.1	.0	.0					5.3	11.4
SE		.8	1.8	7.0	1.4	.4						11.4	13.5
SSE		.7	2.5	6.5	2.3	.8	.4	.0	.0			13.2	14.7
S		.6	3.0	9.0	2.2	.9	.2	.0				15.9	13.8
SSW		.7	.9	2.7	.5	.2	.1	.0				5.1	13.2
SW	.0	.5	1.2	2.1	.5							4.3	11.7
WSW		.5	1.2	2.7	.3	.1	.1	.0				1.4	12.6
W		.0	1.1	3.6	.3	.1	.1					5.8	12.5
WNW		.6	1.4	2.2	.7	.0						4.3	11.8
NW		.7	1.1	1.7	.3							3.3	11.8
NNW		.5	.9	1.1	.1	.1						2.6	11.2
VARIABLE													
CALM	////////////////////											9.3	////
TOTALS	.0	6.7	21.9	40.1	8.8	2.4	.4	.0	.0			100.0	11.6

TOTAL NUMBER OF OBSERVATIONS: 372

11



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.4	2.6	2.2	.7						7.0	10.5
NNE		1.1	1.8	1.8							4.8	9.8
NE		1.1	2.6	2.6							6.2	10.2
NNE		.4	2.2	1.1							3.7	10.0
E		.7	2.2	1.1	.7						4.8	10.6
ESE		.4	1.6	1.6							4.0	11.3
SE		.4	1.8	4.0	.4						6.6	12.7
SSE		.7	1.5	2.6	.7	.7					6.2	13.9
S		.4	2.2	2.6	1.5	.4					7.7	12.7
SSW			.7	1.5	.4						2.6	13.3
SW		.7	1.8	1.8							4.4	10.5
WSW		.7	1.1	1.8							3.7	11.0
W		1.5	2.6	2.2	.4						7.7	10.6
WNW		.7	.7	1.1	.4	.4					3.3	12.7
W		1.1	2.2	2.2							7.3	9.2
WNW		1.1	2.2	1.5	.4						6.2	9.9
VARIABLE												
CALM	////////////////////										13.9	////
TOTALS		12.4	31.5	37.7	5.5	1.5					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS: 273

11



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FAIRLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		2.2	2.5	3.6	.4							8.7	10.4
NNE		.4	.7	1.8	.4							3.3	13.0
NE		.4	2.5	0.9								5.8	10.9
NNE		.7	1.4	1.8								4.0	10.2
E		.7	.7	2.9	.4							4.7	12.1
ESE		.7	1.1	0.2								4.0	10.7
SE		.4	1.1	3.6		.4						5.4	12.6
SSE		.4	2.2	2.5	.4	.4						5.9	13.0
S			1.4	3.6	1.1	1.1	.4					7.6	15.5
SSW		.4	1.1	1.1	.4							2.9	11.1
SW		.7	1.1	1.8	.4							4.0	10.8
WSW		1.4	2.2	1.4		.4						5.8	10.7
W		1.1	2.9	0.2	.7							6.9	11.1
WNW		.4	.7	.7	.4							2.2	11.8
W		1.4	1.4	0.5	.4							5.8	10.4
WNW		1.1	1.8	2.5	.4							5.8	10.6
VARIABLE													
CALM	////////////////////											17.4	////
TOTALS		12.7	25.0	37.7	5.1	2.2	.4					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS: 276



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FAIRLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		2.5	3.3	1.3	.4						9.8	9.9
NNE		.7	.4	1.1	.4						2.5	11.9
NE		1.1	2.2	2.5	.4						6.2	10.5
ENE		.4	.7	1.8							2.9	11.5
E		.4	2.2	2.5		.4					5.5	12.2
ESE		.7	.4	1.8							2.9	10.8
SE			2.9	3.3	.4						6.5	11.5
SSE		.4	2.2	2.5	.4						5.5	11.7
S		.7	1.8	2.9	1.5						6.9	12.8
SSW			2.2	2.5	.7	.4					5.8	13.2
SW		.7	.4	2.2							3.3	10.7
WSW		1.1	1.5	1.8							4.4	10.3
W		.7	1.5	2.9	1.1	.4					6.5	12.8
WNW		1.1	1.1	1.5	.4	.4					4.4	11.3
WW		.7	1.5	1.5	.7						4.4	11.0
WNW		1.1	1.5	1.5	.4						5.1	9.9
VARIABLE												
CALM	////////////////////										17.5	////
TOTALS		12.4	25.5	35.6	6.5	1.5					100.0	9.4

TOTAL NUMBER OF OBSERVATIONS: 275



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 72-87  
MONTH: FEB HOURS(LST): 0900-1100

DIRECTION (000-359)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56		
N		1.0	1.6	5.5	.4							8.7	11.5
NNE		.8	.8	.8	.4							2.8	11.0
NE		.2	1.6	1.2								3.6	10.0
ENE	.4		1.6	2.8								4.7	10.7
E			2.0	1.6								3.6	10.7
ESE		.4	1.2	2.4	.4							4.3	11.9
SE		.4	2.0	2.8	.8							5.9	12.0
SSE			.8	2.8	.4							4.7	13.5
S		1.2	2.0	3.2	.4	.4						7.1	11.7
SSW		1.6	.8	1.2	.8							4.3	10.9
SW		.8	2.4	2.0								5.1	10.3
WSW		1.2	.4	2.4								4.0	10.8
W		.8	2.4	4.3	.4	.4						8.3	12.6
WNW		1.2	2.0	2.4	.4							5.9	10.7
WW		.8	1.6	.8	.4		.4					4.0	12.6
WNW		1.2	3.2	2.4								6.7	9.4
Variable													
CALM	////////////////////											17.0	////
TOTALS	.8	12.7	26.1	32.3	4.7	.8	.4					100.0	9.4

TOTAL NUMBER OF OBSERVATIONS: 203



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63		
N		1.6	2.2	4.0								7.6	10.8
NNE			.7	2.5	.4							3.6	13.7
NE		.7	1.5	2.2	.4							4.7	11.3
NNE			1.1	1.5								2.5	11.1
E		.4	1.1	1.8								3.3	12.0
ESE				1.1								1.1	13.3
SE		.4	2.9	2.5	1.5							7.3	12.7
SSE		.7	1.8	3.6	1.1							7.3	12.1
S		1.5	2.5	2.5		.4						6.9	11.1
SSW			1.1	1.8	.4							3.3	13.7
SW			2.2	2.5								4.7	11.1
WSW		.7	1.8	2.9	.4							5.8	11.2
W		.4	2.9	6.2		.4						9.8	12.6
WNW			.7	2.2								2.9	11.8
W		1.1	1.5	1.8	.7							5.1	11.1
WNW		1.1	2.5	1.8								5.5	9.5
VARIABLE													
CALM	////////////////////											18.5	////
TOTALS		7.4	26.5	41.1	4.7	.7						100.0	9.5

TOTAL NUMBER OF OBSERVATIONS: 775



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			GE 56
N		1.1	1.8	4.0	.4							7.3	11.4
NNE		1.4	1.5	1.6	1.1							5.8	11.6
NE		.7	1.5	7.3								9.5	10.8
ENE			.7	.7								1.5	11.0
E		.4	.4	1.5	.7							2.9	13.3
ESE		.7	.7	1.8								3.3	11.1
SE		.7	1.1	1.8	.4	.4						4.4	12.8
SSE		.7	2.5	2.9	1.8	.7						9.7	13.1
S		1.4	1.1	4.0	.4	.4						7.6	11.8
SSW			1.5	1.5	.4							3.3	13.0
SW		1.1	1.5	1.5								4.0	9.8
WSW		.7		5.1	.7							6.5	12.8
W		1.4	2.9	8.4	.4							13.1	11.8
WNW				2.5	.4	.4						3.3	15.3
NW		1.1	1.1	.7								2.9	8.3
NNW		1.1	3.3	.7	.4							5.5	9.1
VARIABLE													
CALM	////////////////////////////////////										14.5	////	
TOTALS		10.1	21.5	40.2	6.9	1.8						100.0	10.0

TOTAL NUMBER OF OBSERVATIONS: 275



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOLRLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.7	4.0	3.6	.7						9.0	11.4
NNE		.4	1.1	1.1	.7						3.2	12.0
NE		1.1	2.5	1.8							5.4	10.3
ENE			1.8	1.1	.4						3.2	11.7
E		.7	2.5	1.4	.4	.4					5.4	11.2
ESE		.7	1.1	.7	.4						2.9	10.6
SE		.4	1.4	1.8	1.4						5.0	13.1
SSE			1.4	3.0	1.1	.4					6.1	14.1
S		1.4	2.2	4.3	.4	.4					8.6	12.0
SSW			1.4	1.8							3.2	10.7
SW		1.4	2.2	2.2							6.1	9.8
WSW		1.4	1.8	1.1	.4						4.7	9.8
W		2.2	4.3	5.8	.4						12.6	10.9
WNW		.4	1.1	2.5	.4						4.3	12.3
WW		.4	1.1	.7	.4						2.5	11.0
NNW		.7		.7							1.4	10.0
VARIABLE												
CAL"	////////////////////////////////////										16.2	////
TOTALS		10.0	29.9	37.8	6.8	1.1					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS: 278



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: FEB HOURS (LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.4	1.4	3.6	.4	.4					7.2	11.9
NNE		.7	.7	2.2							3.6	11.0
NE		.4	2.9	1.1	.7						5.0	11.1
NNE		.4	1.4	2.2							4.0	11.6
E		1.1	1.8	2.2	.4						5.4	10.6
ESE		.7	1.4	1.1	.4						3.6	10.7
SE		1.8	2.5	2.5	.4	.4					7.6	11.3
SSE		.4	1.8	3.2	.7	.7					6.8	13.7
S		1.1	1.8	5.0	.4	.4					8.6	12.3
SSW			.7	1.4							2.2	11.3
SW		1.1	1.1	1.8	.4						4.3	10.6
WSW		.7	.7	1.1							2.5	9.1
W		.7	4.0	2.9	.4						7.9	11.0
WSW		.4	5.4	1.5		.4					7.7	10.7
SW		.7	.4	1.4							2.5	10.9
WSW		1.4	1.8	1.1	.4						4.7	9.9
VARIABLE												
CALM											16.2	////
TOTALS		12.9	24.9	34.5	4.3	2.2					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS: 276



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.7	2.4	3.7	.4	.7					8.2	10.9
NNE		.7	1.0	1.6	.4						3.7	11.7
NE		.2	2.2	2.2	.2						5.3	10.7
ENE	.1	.7	1.4	1.6	.7						3.3	10.9
E		.5	1.0	1.7	.3	.1					4.4	11.5
ESE		.5	1.0	1.6	.1						2.3	11.1
SE		.5	2.0	2.0	.6	.1					6.1	12.3
SSE		.4	1.8	2.9	.8	.4					6.3	13.1
S		1.0	2.0	3.5	.7	.4	.0				7.7	12.5
SSW		.7	1.2	1.6	.4	.7					3.4	12.2
SW		.5	1.6	2.0	.1						4.5	10.4
WSW		1.0	1.2	2.2	.2	.7					4.7	10.9
W		1.1	2.9	4.4	.5	.1					9.1	11.6
WNW		.5	1.5	1.6	.3	.7					4.3	11.8
W		1.1	1.7	1.6	.3		.0				4.3	10.5
WNW		1.0	2.1	1.6	.2						5.1	9.8
VARIABLE												
CALM	////////////////////											16.4
TOTALS	.	10.7	27.0	37.1	5.6	1.5	.1				100.0	9.6

TOTAL NUMBER OF OBSERVATIONS: 2193



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(UT): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		2.7	3.0	.3							6.0	7.9
NNE		.3	1.3	.3							2.0	8.7
NE		2.0	2.0	.3							4.3	8.2
ENE		1.7	1.7	.3							3.3	8.0
E		.3	1.7	1.0							3.0	9.8
ESE		1.0	2.3	3.7							7.0	11.0
SE		.7	3.0	5.7							9.4	11.7
SSE			2.3	5.0	1.0	.7					10.0	13.0
S		1.7	4.0	4.7	.7						11.0	10.9
SSE			2.7	2.0							4.3	10.6
SSW		1.7	2.3	1.3	.3						5.4	9.7
WSW		.7	.7	1.7							3.0	10.4
W		.7	.7	2.3							3.3	11.8
WSW		.7	.7	1.3							2.3	10.0
W		.7		.7	1.0						2.3	13.0
WSW		1.7	1.7	2.3		.3					5.7	11.2
VARIABLE												
CALC	////////////////////////////////////										17.4	////
TOTALS		14.7	20.6	33.1	3.0	1.0					100.0	8.8

TOTAL NUMBER OF OBSERVATIONS: 294



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 7A-87  
MONTH: MAR HOURS (LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		2.6	1.3	2.3							6.2	9.3
NNE		.7	2.3								2.6	8.3
NE		1.0	2.3	1.3							4.6	9.3
ENE			1.6	.7							2.3	9.7
E		.3	1.6	.7	.3						3.0	11.0
ESE		.7	3.0	3.0	.3						6.9	11.0
SE		2.6	3.3	5.9							11.9	10.4
SESE		1.3	3.6	4.6	.3	.7					10.5	11.8
S		2.0	2.0	5.3	.7						9.9	11.3
SSW		.3	1.3	1.0							2.6	10.3
SW		2.7	1.6	1.6							5.6	8.6
WSW		.7	.7	2.0							3.0	11.8
W		.7	.3	1.6	.3						3.3	13.8
WNW		.7	.3	1.0							1.6	11.6
NW		.7		1.3							1.6	13.2
NNW		2.0	2.6	2.0		.3					6.9	9.6
VARIABLE												
CALM											17.4	////
TOTALS		17.1	26.5	34.2	2.0	1.0	.3				100.0	8.7

TOTAL NUMBER OF OBSERVATIONS: 704



GENERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MTC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275550 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS (LST): 0400-0600

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-7	8-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	GE 56		
0		1.7	1.6	1.6	.3							6.6	10.2
30		1.6	2.7	.7								4.6	8.9
60		.7	1.3	.3								2.3	5.0
90			1.3	1.0								2.3	10.2
120		.7	1.6	2.0	.3							4.6	11.1
150		1.7	2.0	1.6	.3	.7						5.9	10.9
180		1.0	3.6	7.5	.3							13.1	11.5
210		.7	4.3	4.9	.7	.7						11.1	11.8
240		1.0	1.6	5.2		.3						8.2	12.0
270		1.7	2.3	1.0								4.3	5.9
300		1.7	1.6	1.3								3.3	9.2
330			.7	2.0								2.6	17.3
360		.7	1.6	1.3								3.6	10.0
390		.7		1.3								1.6	11.2
420		.7	.7	1.0	.3							2.0	12.2
450		1.7	3.6	1.6								5.9	9.3
UNDETER													
ONLY	////////////////////											17.2	////
TOTALS		11.9	31.7	39.9	2.3	1.7						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS: 3.5

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOLWY OBSERVATIONS

STATION NUMBER: 27595J STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.6	3.6	2.6	.4	.4					9.5	10.3
NNE		1.1	1.5	.4							2.9	8.3
NL		1.1	1.8	2.2							5.1	9.9
ENE		.7	1.1	.4							2.2	8.3
E		.7		.7							1.5	9.5
ESE		1.6	2.2	3.6	.4	.4					8.0	11.5
SE		1.6	3.6	4.7							10.2	10.5
SSE		1.6	3.6	7.3	.7						13.1	11.3
S		1.6	1.5	4.4	.7	.4					9.8	11.9
SSW		.7	1.5	1.1							3.3	9.1
SW			1.1	.7	.4						2.2	11.8
WSW			1.8	.7							2.6	10.0
W			.7	2.2	.7						3.6	13.6
WNW			1.1								1.1	9.3
W			1.1	1.0	.4						2.3	12.8
WNW		.7	2.3	1.5							5.5	9.7
VARIABLE												
CALM	////////////////////										17.2	////
TOTALS		14.2	29.6	24.3	3.6	1.1					100.0	8.9

TOTAL NUMBER OF OBSERVATIONS: 274



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS (LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.7	1.7	1.7	.7							4.7	11.6
NNE		0.0	1.7	0.3		.3						6.4	10.5
NE		1.7	1.3	1.3								4.4	9.1
ENE			.3									.3	8.0
E				.7	.3							1.0	17.0
ESE		1.0	.7	0.0								3.7	10.5
SE		1.0	1.3	0.7	.7							6.7	11.9
SSE		0.0	4.4	7.4	1.0	.7						16.4	11.6
S		1.7	4.0	8.1	1.0							14.4	11.7
SSW			.7	3.7	.3							4.7	13.9
SW			1.7	1.7								3.4	11.8
WSW			1.0	1.0	.3							2.3	12.4
W		.7	1.0	4.0	.3							5.7	13.2
WNW			.3	1.0								1.3	12.5
WW		.3	1.0	1.7								3.0	10.7
WNW		1.7	1.0	.7								3.0	8.7
VARIABLE													
CALM	////////////////////											18.5	////
TOTALS		11.4	22.1	41.9	4.7	1.7						107.0	9.4

TOTAL NUMBER OF OBSERVATIONS: 258



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: MAR HOURS(IST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.0	2.3	3.3							6.6	10.4
NNE		1.7	3.3	1.7	.3						5.6	9.9
NE		1.0	1.3	1.3							3.7	10.2
NNE			.3	.3							.7	11.0
E		.7	.3	.7	.3						1.7	12.6
ESE		1.0	1.0	1.0							3.7	9.1
SE		2.0	3.0	3.3	.3						8.6	10.3
SSE		2.7	3.3	6.3	1.0	1.7					15.9	12.7
S		.7	7.3	6.6							14.6	10.8
SSW		.3	2.3	2.7							5.3	11.6
SW		.7	1.0	2.0							3.7	11.3
WSW			.7	1.3	.3						2.3	13.2
W		.7	.7	4.3	1.3						6.6	14.2
WNW			1.3	1.3	.3						3.7	12.1
NO		.3	1.0	.7	.3						2.3	11.0
NNW				.7	.3						1.0	15.7
VARIABLE												
CALM											15.6	////
TOTALS		11.7	28.9	39.5	4.7	1.7					100.0	9.7

TOTAL NUMBER OF OBSERVATIONS: 301



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 7P-87  
MONTH: MAR HOURS(EST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.7	2.0	7.3							6.0	10.9
NNE		2.0	1.7	1.0							4.6	8.3
NE		1.7	2.0	1.3							4.6	8.9
ENE			1.0								1.0	8.7
E		1.7	.3	1.3	.3						3.6	10.1
ESE		1.0	1.7	2.6	.3						5.6	11.1
SE		2.7	3.3	3.0	.7	.7					9.9	11.3
SSE		1.7	5.3	5.6		.3					12.6	11.0
S		1.0	6.0	7.3	.3	.3					14.9	11.2
SSW		.7	1.2	2.3							4.0	11.3
SW		.7	1.0	1.0			.3				3.0	11.9
WSW		.7	1.7	.7	.3						3.3	9.9
W		1.7	.7	5.0	.7						7.9	12.0
WNW			1.3	1.3		.3	.3				3.0	14.2
WW			.3	.3							.7	11.0
WNW		.7	.3	.7	.3	.3					2.0	14.3
VARIABLE												
CALM	////////////////////										13.2	////
TOTALS		14.4	29.8	36.4	3.0	2.7	.7				100.0	9.6

TOTAL NUMBER OF OBSERVATIONS: 702



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(IST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.6	2.6	2.0								6.2	9.3
NNE		1.0		.3								1.3	8.5
NE		1.0	1.3	.7								2.9	8.7
ENE			2.6									2.6	9.0
E		2.0	2.0	.3		.3						4.6	9.2
ESE		.7	1.6	1.3								3.2	11.8
SE		1.7	3.9	5.2	1.0	.3						11.8	11.9
SSE		.7	2.9	6.5	.7	.7						11.4	12.7
S		1.0	5.2	3.3	.7							10.1	10.4
SSW		.7	.7	2.3	.3							3.9	11.4
SW		2.0	2.0	1.0	.3							5.2	8.7
WSW		.7	.3	2.0								2.6	12.0
W	.7		.7	2.7								3.6	12.1
WNW		1.7	1.3	1.6		.3						4.2	10.7
NW		.3	.3	.7			.7					1.6	13.8
NNW			2.3	2.9	.7	.3						5.2	12.3
VARIABLE													
CALM	////////////////////											16.3	////
TOTALS	.7	10.1	29.4	35.0	3.6	2.0	.7					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS: 306



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 7A-87  
MONTH: MAR HOURS (LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.6	2.5	2.1	.2	.0					6.4	9.9
NNE		1.1	1.8	.8	.0	.0					3.8	9.2
NE		1.2	1.7	1.1							4.0	9.1
ENE		.3	1.3	.3							1.9	9.0
E		.8	1.0	.9	.2	.0					2.9	10.6
ESE		1.0	1.8	2.6	.2	.1					5.7	11.0
SE		1.7	3.1	4.7	.4	.1					10.2	11.2
SSE		1.7	3.9	6.2	.7	.5					12.6	12.0
S		1.7	4.0	5.6	.5	.1					11.5	11.2
SSW		.4	1.5	2.0	.1						4.1	11.0
SW		1.0	1.5	1.3	.1		.0				4.0	10.0
WSW		.3	.9	1.4	.1						2.7	11.4
W		.5	.8	2.0	.4		.0				4.7	12.7
WNW		.0	.8	1.1	.0	.1	.0				2.3	11.6
W		.1	.5	1.0	.3		.0				2.1	12.2
NNW		.0	1.9	1.5	.2	.2					4.6	10.6
VARIABLE												
CALM	////////////////////										16.6	////
TOTALS		12.6	26.8	36.7	3.3	1.3	.2				100.0	9.2

TOTAL NUMBER OF OBSERVATIONS: 4309



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MSC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM POLARLY OBSERVATIONS

STATION NUMBER: 270950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(UT): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56		
N		.7	1.7	.7								2.7	8.8
NNE		1.4	1.7	1.7								4.8	9.1
NE	.7	.7	1.0	0.0	.3							4.1	11.1
NNE			1.7	.3								2.0	8.7
E		.7	3.1	1.7		.3						5.8	10.5
ESE		.7	3.1	1.0		.7						5.1	10.6
SE		.7	5.1	0.4	.3							8.5	10.0
SSE		1.7	3.7	3.4								8.8	10.3
S	.3	2.7	2.7	3.4	.3							8.8	9.9
SSW		1.0	1.7	2.4	.3							5.4	10.6
SW		1.7	2.0	1.7		.3						5.1	10.6
WSW		.7	2.0	1.4	.3							4.4	10.4
W		2.0	2.0	1.0	.7							5.8	9.9
WNW		1.0	2.4	1.0	.3							4.8	9.9
NW			1.4	.7								2.0	10.7
NNW		.7	1.0	0.0	.3							3.7	12.6
VARIABLE													
CALM	////////////////////											18.0	////
TOTALS	.7	13.9	36.4	28.9	3.1	1.0						100.0	8.4

TOTAL NUMBER OF OBSERVATIONS: 274



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 279950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(IST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.7	2.4	.3								4.4	8.3
NNE		.7	.7	2.4	.3							4.1	12.1
NE		.7	.7	2.0								3.1	11.8
ENE			3.7	1.7								5.4	10.0
E			2.7	.7								3.4	9.4
ESE		1.4	1.4	1.0								3.7	9.1
SE		.3	5.1	2.4			.3					8.1	10.9
SSE		.7	6.4	4.4								11.5	10.5
S		1.7	2.4	4.1	.3							7.8	11.0
SSW		.7	3.1	2.7								6.4	10.4
SW		.7	.7	2.0								3.4	10.4
WSW		.7	1.0	2.0	.3							3.7	11.4
W		1.7	.7	1.7		.3						4.7	10.4
WNW		.7	1.4	2.4								4.4	11.2
NW		.3	1.4	1.7	.3							3.7	11.4
NNW		.7	.7	1.4	.3							3.1	11.4
VECTORED													
CALM	////////////////////											19.0	////
TOTALS		11.1	34.2	31.9	1.7	.3	.3					100.0	8.6

TOTAL NUMBER OF OBSERVATIONS: 245



GLOBAL CLIMATOLOGY BRANCH  
USAF/ITAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 7A-87  
MONTH: APR HOURS (LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66		
N			2.1	1.0								3.1	9.8
NNE		1.7	1.0	1.4	.7							4.2	12.0
NLE		.7	1.0	2.1	.3							4.2	11.8
E NE		.7	2.1	1.4	.3							4.2	10.8
E		1.7	1.7	2.1								4.8	9.7
ESE		.7	2.8	1.4								4.5	10.2
SE		1.7	5.2	3.8			.3					10.4	10.9
SSE		2.1	4.8	2.4								9.3	9.6
S		1.7	2.4	4.2	.3							9.0	11.1
SSW		.7	1.4	2.1								4.2	10.5
SW		.7	1.7	2.5								5.9	10.5
WSW		.7	1.0	.3	.3							2.4	9.9
W		1.7	1.0	1.0	.3							4.2	9.8
WSW		.7	1.7	2.4								4.5	11.5
W			.3	1.4	.7							2.4	14.0
NNW		1.7	2.1	2.4								6.6	10.0
VARIABLE													
CALM	////////////////////											17.3	////
TOTALS		13.4	32.4	37.2	3.1		.7					100.0	8.9

TOTAL NUMBER OF OBSERVATIONS: 249



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275250 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(IST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-7	8-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.7	1.7	3.1	.3						4.9	11.5
NNE		1.7	1.0	1.7	.7						4.2	11.8
NE			2.4	3.1							4.5	11.4
ENE		1.7	1.4	.7	.7						2.8	11.1
E		1.7	.7	3.1							3.5	10.6
ESE		1.7	1.0	1.0							2.8	9.0
SE		1.7	2.4	2.4	.3						7.3	10.2
SSE		2.4	2.4	3.1	.3						9.1	10.1
S		1.7	2.4	3.4	.3						14.0	12.0
SSW		1.7	.7	3.1							4.9	11.0
SW			2.4	3.4							5.2	10.9
WSW		1.4	1.4	3.4	.3	.3					5.2	11.9
W		1.7	2.1	2.4	.3						5.2	11.1
WSW			.7	3.4	.3						3.5	12.7
W		1.7		1.7	.7						3.5	12.4
WNW			1.0	3.0	.3						4.2	11.9
VARIABLE												
CALM	////////////////////										14.3	////
TOTALS		17.7	23.8	43.7	4.2	.7					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS: 286



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MPC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 7A-87  
MONTH: APR HOURS(LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N			1.4	1.0							2.4	10.6
NNE		.7	.7	4.1	1.0						6.1	13.8
NE			2.0	.7							2.7	9.5
ENE		.7	.7	2.4	.3	.3					4.1	14.0
E		.3	.7	1.0							2.0	11.3
ESE		.7	1.0	1.4	.3						3.4	10.7
SE			2.0	2.4							4.4	11.2
SESE		1.7	3.1	4.8	.7	.3					9.9	12.2
S		.7	4.4	7.5	1.0	1.0					14.6	12.9
SSW		.7	1.7	4.4	.7			.3			7.5	13.7
SW		.3	.3	2.4	.3	.7					4.1	15.3
WSW			2.4	3.4		.3					6.1	12.2
W		.7	2.4	5.8		.3					8.8	12.9
WNW		.7	1.0	1.4	.7						3.4	13.0
Ww			.7	2.0	1.0			.7			4.1	16.2
WSWw		.7	1.4	1.7	1.4						5.1	12.1
UNAVAILABLE												
CALM	////////////////////										11.2	////
TOTALS		7.4	25.9	46.3	7.5	3.1		.7			100.0	11.4

TOTAL NUMBER OF OBSERVATIONS: 244



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275250 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(IST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.7	2.0	2.4	.7						5.5	12.1
NNE		.7	1.4	2.7	.3	.3					5.1	13.2
NE		.7	1.0	2.4	.3						4.1	12.4
ENE		.7	.7	2.0	.7						4.1	12.3
E			.7	.7							1.4	10.5
ESE			1.0	2.4							3.4	12.2
SE		.7	2.4	2.0		.3					5.1	11.5
SSE		.7	3.1	5.1	1.0						9.6	12.0
S		.7	2.0	5.9	2.4	.3					14.0	14.3
SSW		.7	2.4	2.7	.7	.3					6.5	12.6
SW		.7	1.0	2.0		.7					4.4	13.1
WSW		1.4	1.0	4.3	1.7	.3					8.9	13.2
W		.7	1.4	3.4	.7						5.8	12.5
WNW		.7	.3	2.4	.7						4.9	14.4
NW			.3	2.4	1.0						3.8	15.0
NNW			1.0	1.0	.7						2.7	13.8
VARIABLE												
CALM											10.9	////
TOTALS		5.1	21.8	45.6	10.9	2.4					100.0	11.6

TOTAL NUMBER OF OBSERVATIONS: 243



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 70-87  
MONTH: APR HOURS/EST: 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-7	8-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
L			1.4	2.0							3.4	11.8
NNI		1.4	2.0	2.7		.7					6.8	11.4
N		2.0	1.7	1.4							5.1	8.7
NNE			.7	1.7	.3						2.7	13.4
E		1.4	.7	1.4	.3						3.4	10.5
ESE		.7	2.7	1.0							4.1	9.3
SE		1.7	2.7	0.0							4.5	9.7
SSE		2.4	4.1	4.8							10.2	10.4
S		2.4	2.4	5.5	.7	.3					11.3	11.4
SSW		1.7	2.0	2.7							5.8	10.9
SW		.7	2.4	2.4	.3	.3					5.1	11.8
WSW			1.7	0.4	.7						4.8	12.9
W		1.7	2.0	3.1	.7	.7					8.9	12.3
WNW		1.7	.7	0.0							2.4	11.0
W		.7	.3	0.4							1.1	10.4
WNW		.7	1.0	1.0	1.4						3.8	12.7
VARIA												
CAL											10.2	
TOTALS		14.7	20.7	40.0	4.1	1.7					100.0	10.0

TOTAL NUMBER OF OBSERVATIONS: 243



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 273955 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: APR HOURS (LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	GE 56		
N		1.4	1.4	2.0								4.8	9.9
NNE			2.7	1.4	.3							4.4	11.2
NE		.7	1.7	1.0								3.4	10.2
ENE		.7	1.0	1.7								4.4	9.5
E			1.7	.3								2.0	9.0
ESE		.7	4.6	1.7		.3						7.5	10.1
SE		1.7	2.7	1.4								5.8	9.5
SSE		2.7	3.4	4.1								9.2	10.3
S		1.4	3.7	6.1		.3						11.6	11.5
SSW	.7	3.4	3.4	1.7	.3							7.1	9.3
SW		2.4	1.0	1.0								4.4	9.0
WSW		.7	1.7	0.3	.3	.7						5.4	10.3
W		1.4	2.0	1.0	.3							4.8	9.2
WNW		.7	1.0	1.0								2.4	10.0
W		1.7	.7	2.4								4.1	10.7
WNW		.7	.7	1.4	.7							2.7	11.6
VA-17-EE													
CAD	////////////////////											16.0	////
TOTAL	.7	10.7	33.7	30.3	1.7	1.4						100.0	8.6

TOTAL NUMBER OF OBSERVATIONS: 254



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATION

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 74-87  
MONTH: APR HOURS(LEST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.7	1.6	1.6	.1						3.9	10.5
NNE		.7	1.4	2.3	.4	.1					5.0	11.9
NE	.7	.6	1.5	1.7	.1						3.9	10.8
NNE		.4	1.5	1.5	.2	.0					3.7	11.2
E		.5	1.5	1.2	.0	.0					3.3	10.2
ESE		.7	2.2	1.4	.0	.1					4.3	10.2
SE		.9	2.5	2.4	.1	.0	.1				7.0	10.5
SSE		1.5	3.9	4.0	.2	.1					9.7	10.7
S	.7	1.3	2.8	6.1	.7	.3					11.2	12.0
SSW	.7	.8	2.1	2.7	.2	.0		.7			6.0	11.2
SW		.5	1.5	2.2	.1	.3					4.8	11.3
WSW		.6	1.5	2.4	.5	.0					5.2	12.1
W		1.7	1.7	2.7	.3	.1					6.0	11.3
WNW		.7	1.2	2.7	.3						3.9	11.8
W		.7	.6	1.8	.5			.7			3.3	12.9
WNW		.7	1.1	1.8	.5						4.0	11.8
VARIABLE												
CALC											14.6	////
TOTALS	.1	11.4	29.6	37.8	4.5	1.3	.1	.1			100.0	9.6

TOTAL NUMBER OF OBSERVATIONS: 2738



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS (LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.7	2.3	3.0	.7							9.2	10.6
NNE		.7	1.6	1.0								3.0	10.4
NE		1.0	1.0	1.6	.3							4.9	9.5
NNE		1.0	1.3	.3								2.6	8.8
E		1.7	1.3	1.6								4.2	8.6
ESE		1.7	1.6	1.6								4.6	9.1
SE		1.7	2.0	1.6								4.9	9.7
ESE		1.0	2.0	.7								3.6	8.4
S		1.6	1.6	2.0								5.3	9.5
SSW		.7	2.6	1.3								4.6	9.7
SW		1.6	1.3	.3	.3							3.6	8.9
WSW		1.7	2.6									3.9	8.0
W		1.7	1.6	1.3								4.3	9.1
WNW		1.0	.7	1.3								3.0	10.0
W		1.0	1.3	1.3								3.6	9.8
WNW		1.7	2.0	2.6		.7						6.2	10.9
VARIABLE													
CLLH	////////////////////											24.3	////
TOTALS		10.4	20.9	20.7	1.3	.3						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS: 304



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS (LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N		1.7	1.3	1.9	.3						10.8	9.8
NNE		.7	2.3	.7	.7						4.3	10.9
NE		1.7	1.6	1.3							3.9	9.7
NNE		.7	1.6	2.3							4.3	10.8
E		.7	2.6	1.3							4.3	9.5
ESE			1.3	2.3							3.6	11.3
SE		.7	2.2	.7							3.3	9.8
ESE		1.7	3.0	2.3							6.2	9.8
S		1.7	4.3	1.3							6.6	9.2
SSW			2.6	.7							3.3	10.0
SW		.7	1.6	.3							2.6	8.3
WSW		1.6	.7	.7	.3						3.3	9.1
W		1.7	2.0	1.3							5.2	10.4
WNW		1.6	.7	.7							3.0	7.8
W		.7	.3	1.3							2.0	11.3
WNW		1.7	1.3	1.3	.3						6.9	9.2
VARIABLE												
CALM	////////////////////										26.6	////
TOTALS		15.4	33.4	23.1	1.6						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS: 205



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS (LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.7	2.3	3.0	.3	.3					7.3	10.8
NNE		.7	3.7	1.7	.3						5.6	11.7
NE		.7	1.3	1.7							3.6	10.5
NNE		.7	1.7	1.0			.3				5.0	12.9
E		.7	1.0	.3							2.0	8.7
ESE		1.3	2.3	.3							4.0	8.8
SE		.7	4.6	1.0	.3						6.3	9.8
SSE		1.7	2.3	2.0							6.0	9.3
S		1.0	1.7	2.6							5.3	10.0
SSW		1.0	2.6	.7							4.3	8.5
SW			1.7		.3						2.7	9.8
WSW		.7	1.0	.7							2.3	9.4
W		1.7	3.0	3.0							7.3	9.9
WNW		.7	1.0	1.3							2.6	10.5
NW		.7	2.3	1.0							3.6	9.6
NNW		1.7	4.0	3.0							9.3	10.2
VARIABLE												
CALM	////////////////////										23.5	////
TOTALS		10.0	36.1	25.5	1.3	.3	.3				100.0	7.7

TOTAL NUMBER OF OBSERVATIONS: 102



GLOBAL CLIMATOLOGY BRANCH  
USAFCTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(IST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.7	1.0	5.6	.7							7.9	13.3
NNE		2.7	.3	2.6	.7							5.6	10.9
NE		.7	1.3	2.6	.3							5.6	12.5
ENE			2.0	1.3								4.3	10.3
E		.7	1.3	1.3	.3							3.6	10.8
ESE			.3	.7								1.0	12.0
SE		1.0	2.3	1.0								4.9	9.9
SSE			1.0	2.3								4.3	12.6
S		.3	2.6	2.0								5.9	11.1
SSW		2.7	2.3	4.3								8.5	11.1
SW			2.0	2.0								3.9	10.7
WSW		1.0	2.0	1.0								3.9	9.5
W		.7	2.6	6.2								9.5	11.7
WNW		.7	1.3	1.3		.7						2.6	12.1
W			3.0	2.6	.3							5.9	11.5
NNW		1.0	3.3	4.3								8.5	10.9
VARIABLE													
CALC	////////////////////											13.1	////
TOTALS		10.7	29.5	44.6	2.3	.3						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS: 706



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275953 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(UT): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			GE 56
N		.7	1.3	6.3	1.0	.3						9.4	13.3
NNE		.7	1.0	2.6	1.7							5.6	13.9
NE		.7	1.0	1.7	.3							3.6	11.5
NNE			1.3	1.3								2.6	11.0
E		.7	1.7	1.7	.7							4.3	12.0
ESE		.3	.3	1.0	.7							2.3	12.9
SE		.7	1.0	1.0								2.3	10.3
ESE		.7	2.0	3.0								5.6	10.9
S		.7	1.7	6.0	1.0							9.3	13.0
SSW		.7	.7	2.3				.3				3.6	14.6
SW		1.0	.7	2.0	.3							4.0	11.9
WSW		.7	1.7	3.3	1.0	.3						6.6	13.0
W		.7	2.0	2.3	.7							11.6	12.9
WNW		.3	1.0	4.0	.7							6.0	13.1
NW		.3	2.3	4.3		.3						7.3	12.0
NNW		.7	2.3	4.0	.7							7.3	12.5
VARIABLE													
CALM	////////////////////////////////////											8.3	////
TOTALS		2.7	21.9	50.6	8.6	1.0		.7				100.0	11.6

TOTAL NUMBER OF OBSERVATIONS: 302



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MPC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: MAY HOURS(IST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.1	2.3	5.9	1.0						10.2	12.1
NNE			1.2	4.6	.7						6.6	13.1
NE		1.0		2.0	.7						3.6	12.7
NNE		.7	.7	2.0							3.3	11.2
E		.7	.3	2.3		.3					3.3	13.1
ESE		.3		2.0							2.3	12.6
SE		.3	.3	1.3	.3						2.3	12.1
ESE		1.0	1.0	2.3							4.3	10.9
S		.7	.3	3.9	1.0	.3					6.2	13.6
SSW			.7	3.9	.3		.3				5.3	14.4
SW		.7	.3	1.3		.3					2.3	13.0
WSW			1.3	3.9	.7		.3				6.2	14.4
W		.7	1.3	3.2	1.6	.3					12.2	13.6
WNW		.7	2.6	4.3	.7	.3					8.2	12.8
NW		.3	.7	5.3	.7	.3					7.2	13.1
NNW		.7	3.0	3.9	1.0						8.2	12.3
VARIABLE		.7									.3	6.0
CALM	////////////////////										7.9	////
TOTALS		7.4	16.1	57.2	8.6	2.0	.7				100.0	11.9

TOTAL NUMBER OF OBSERVATIONS: 304



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: MAY HOURS(IST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.7	2.0	6.7	1.0	.3						10.4	13.2
NNE		.7	3.7	0.7	.7							8.4	11.6
NE		.7	2.0	0.0	.3							4.7	11.2
NNE			.7	.7								1.7	11.0
E		.7	2.4	1.3								4.4	10.0
ESE			.7	1.0								1.7	12.0
SE		.7	.3	1.3								2.4	10.3
SSE		1.0	2.4	1.7								5.1	9.6
S		1.0	1.0	3.7	.7							6.4	11.8
SSW		.7	1.7	0.4								5.4	11.8
SW		.7	.3	.7	.3							1.7	11.4
WSW			1.3	0.4	.3		.3					4.4	13.5
W		.7	0.4	0.4	.3							11.4	11.9
WNW		1.0	1.7	0.0	.7							6.1	11.8
W		1.7	2.0	4.4	1.3							9.1	11.9
WNW		.7	1.7	0.4	.3	.3						5.7	12.7
VARIABLE													
CALM	////////////////////											11.4	////
TOTALS		1.7	26.6	46.3	6.1	.7	.3					100.0	10.5

TOTAL NUMBER OF OBSERVATIONS: 297



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HIC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM FOURLY OBSERVATION

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(UT): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56		
N		1.0	4.3	7.0								7.2	9.6
NNE		1.0	1.0	1.3								4.3	8.5
NE		1.0	3.0	2.0								5.9	9.7
NNE		2.6	1.6	1.0	.3							5.0	8.6
E		1.0	3.6	.7								5.2	8.9
ESE		.3	2.3	2.0								4.6	10.1
SE		.7	1.6	.3								2.6	8.8
ESE		1.6	1.0	1.3								3.9	9.2
S		1.0	3.6	3.0								7.5	10.0
SSW		1.0	2.3	.7	.3							3.9	9.3
SW		.7	1.0	1.0	.3							3.0	10.1
WSW		.7	2.0	1.0								3.3	9.6
W		1.0	3.0	1.3	.3	.3						7.2	10.0
WNW		1.0	1.3	1.0								3.9	8.7
NW		1.0	1.3	1.3		.3						4.6	10.1
NNW		2.0	.7	2.3	.7							5.6	10.8
VARIABLE													
CALM	////////////////////											21.6	////
TOTALS		10.7	33.4	21.6	2.0	.7						100.7	7.5

TOTAL NUMBER OF OBSERVATIONS: 305



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: MAY HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			GE 56
N		1.7	2.4	4.7	.6	.1						9.1	11.6
NNH		.7	1.8	3.3	.6							5.4	11.5
NE		.0	1.4	2.0	.2							4.5	10.9
ENE		.0	1.5	1.4	.0		.0					3.6	10.6
E		.0	2.0	1.3	.1	.0						4.4	10.0
ESE		.0	1.1	1.4	.1							3.0	10.6
SE		.0	1.8	1.1	.1							3.6	10.0
SSE		.0	1.8	2.1								4.9	10.1
S		.0	2.1	2.2	.3	.0						5.5	11.1
SSW		.0	1.9	2.1	.1		.0	.0				4.9	11.2
SW		.0	1.1	.9	.2	.0						2.9	10.5
WSW		.0	1.6	1.6	.3	.0	.1					4.2	11.4
W		1.0	2.4	4.7	.4	.1						9.6	11.6
WNW		.0	1.2	2.1	.0	.1						4.5	11.4
NW		.0	1.7	2.7	.3	.1						5.4	11.5
NNW		1.1	2.5	2.2	.4	.1						7.2	11.2
VARIABLE												.0	6.0
CALM	////////////////////											17.1	////
TOTALS		17.1	28.7	36.7	4.0	.7	.2	.0				100.0	9.2

TOTAL NUMBER OF OBSERVATIONS: 2424



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: JUN HOURS(UT): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.0	1.7	1.3	.7						5.7	10.2
NNE		2.0	.7	1.3							4.0	9.0
NE		.7	2.4	.3	.3						3.7	9.7
ENE		2.0	2.0	1.7							4.7	9.7
E		1.7	3.0	2.0	.3						6.4	10.2
ESE		1.7	2.0	2.0							5.4	9.5
SE		.7	3.0	1.3							5.1	9.7
SSE		1.7	2.0	.7							4.0	8.3
S		1.7	2.0	1.0	.3						5.1	9.3
SSW		1.7	1.3	.7	.3						3.4	9.5
SW		1.7	.3	1.0							2.7	8.8
WSW		1.3	3.0	1.0							5.4	9.0
W		1.7	1.0	.3							2.4	7.7
WNW		.7	2.0	2.4							5.1	10.5
W		1.7	3.7	.7							5.7	8.6
WNW		1.7	2.0	7.0	.3						6.4	10.8
VARIABLE												
ONLY	////////////////////										24.9	////
TOTALS		14.6	32.3	27.9	2.4						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS: 297



GLOBAL CLIMATOLOGY BRANCH  
USAF/DTIC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 7P-R7  
MONTH: JUN HOURS(IST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	OF 56	
N		1.4	2.7	1.0	.3						7.5	8.5
NNE		2.4	1.0	1.0							4.4	4.0
NE			1.4	1.3	.3						2.0	11.5
NNE		.7	2.0	.3							2.7	9.0
E		.7	4.1	2.4	.3						7.1	10.8
ESE		.7	4.1	1.0							5.8	8.9
SE		.7	2.7	1.0							3.1	10.4
ESE		1.4	2.0								2.1	7.3
S		2.4	3.4	2.4							7.8	9.3
SSW		1.4	.3	.7							2.4	4.6
SW		1.4	1.0	.7							2.7	8.3
SSW		2.4	2.7	.3							5.8	7.6
W		1.4	3.4	.7	.7						5.8	9.9
WNW		1.4	1.4	1.0							4.1	5.3
W		.7	2.0	2.0							4.7	9.7
WNW		.7	2.1	3.1	.7						7.1	11.6
VARIABLE												
CALM	////////////////////////////////////										24.1	////
TOTALS		12.7	26.3	14.0	2.4						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS: 245



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(EST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66	
N		1.4	2.7	7.7	.7						3.4	10.9
NNE		1.7	1.0	1.0							3.0	9.6
NE		.7	1.0	1.4	.3	.3					3.7	11.6
ENE		1.0	1.7	1.4							4.1	9.5
E			3.7	2.0							5.7	10.1
ESE		1.7	4.1	1.0							6.1	9.7
SE		1.7	1.0	1.4							4.1	8.3
SSE		1.4	1.4	2.0							5.7	9.3
S		1.7	2.0	1.0	.3						4.4	9.3
SSW		.7	1.4	.7	.3						2.4	9.6
SW		1.0	3.0	.7							4.7	8.1
WSW		.7	1.0	.7							2.4	8.6
W		1.7	2.4	7.0	.3						6.8	11.3
WNW		.7	2.0	1.4							4.1	9.8
W		.7	1.7	2.0							5.4	11.1
WNW		1.0	7.0	2.4	.7						7.1	10.4
VARIABLE												
CALM	////////////////////										22.0	////
TOTALS		10.0	33.1	26.4	2.4	.3					100.0	7.8

TOTAL NUMBER OF OBSERVATIONS: 256



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275451 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(UT): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-7	8-10	11-15	16-21	22-27	28-33	34-40	41-47	48-55	56-66			
N		1.7	2.1	4.9	1.4							9.9	12.1
NNE		1.7	1.0	1.7								3.8	10.4
NE		1.7	1.4	1.7	1.3							4.1	10.6
NNE		1.7	1.4	1.7								3.4	10.8
E		1.7	2.7	1.7	1.3							4.8	9.4
ESE		1.7	1.4	2.1								3.9	11.1
SE			1.0	2.4								4.0	12.2
ESE		1.7	3.1	2.1								5.9	10.4
S		1.4	3.9	2.7	1.7							8.6	10.6
SSW		1.7	1.7	3.2								5.9	12.1
SW		1.7	1.7	1.7								3.1	10.9
WSW		1.7	1.0	2.5	1.3							6.9	11.5
W		1.7	3.4	4.1		1.7						8.2	11.3
WNW		1.7	1.7	1.4								3.4	10.2
W		1.7	1.4	3.8	1.0							6.9	12.6
WNW		1.7	1.0	2.7								4.9	10.7
VARIABLE													
DATA	////////////////////											12.7	////
TOTAL		1.7	24.8	40.5	4.1	1.7						100.0	7.8

TOTAL NUMBER OF OBSERVATIONS: 142



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 7P-#7  
MONTH: JUN HOURS(UT): 1200-1400

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-59	TOTAL %	MEAN WIND
N			1.0	4.1	1.4	.3						6.8	14.9
NNE		.7	.3	3.0	.3							4.1	12.9
NE		1.0	.7	1.0								2.7	9.3
ENE		.7	1.7	1.4	.3							3.7	10.6
E		.7	2.0	1.4								3.7	10.5
ESE		.7	1.0	2.0	.7							4.1	12.0
SE			1.0	3.7								4.7	12.3
SSE		1.4	2.4	3.0								6.8	10.2
S		.7	3.0	3.7	.7							7.8	12.0
SSW		.7	1.4	4.1	1.0							6.9	13.4
SW			.7	1.4	.3							2.4	13.0
WSW		.7	3.0	3.0	.7							7.1	11.6
W		1.0	2.0	6.4	.7							10.1	12.1
WSW		.7	3.4	4.7								8.8	11.2
W		.7	1.4	2.7	.3	.3						5.1	12.5
WNW			.3	3.7	.3	.7						6.8	14.2
VARIABLE													
CALM	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	//////////	8.8	////
TOTALS		1.0	15.2	51.4	6.8	1.0						100.0	11.1

TOTAL NUMBER OF OBSERVATIONS: 296



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUN, HOURS(UTST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N			.7	4.1	2.7	.7						8.2	15.5
NNE			.7	2.7	.3							3.7	13.9
NE			.7	1.7								2.4	11.4
ENE		.7	1.4	1.4								3.1	10.9
E		.7	1.0	1.4	.3							3.1	11.9
ESE		.7		2.7			.3					3.7	13.9
SE			1.7	1.4								3.1	10.4
SSE		1.0	3.1	4.4	.7							9.2	11.3
S		.3	1.4	4.4	.3		.3					6.8	13.2
SSW		1.0	1.0	2.4	.7							6.1	12.3
SW		.7		1.4		.3						2.4	12.3
WSW			1.0	3.1								4.1	12.8
W		1.0	2.4	2.8	2.0	.3						13.6	13.0
WNW		.7	3.1	3.7	1.0							8.2	12.5
W			1.4	3.1	.7							5.1	13.2
NNW		.7	1.0	1.4	.7							2.8	13.0
VARIABLE													
CALC	////////////////////											9.5	////
TOTAL		3.5	20.4	52.0	9.5	1.4	.7					100.0	11.6

TOTAL NUMBER OF OBSERVATIONS: 294



GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAFLTAC      FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 275951      STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
 MONTH: JUN      HOURS (LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.7	1.7	5.1	1.7	.3	.3					9.1	14.5
NNE		.7	1.0	1.7								3.0	11.1
NE		1.7	1.0	1.3								3.4	10.0
ENE			.7	.3								1.0	10.0
E		1.0	.3	1.7								3.0	9.8
ESE		1.0	2.0	2.4								5.4	10.3
SE			2.7	1.3								4.0	10.5
SSE		1.7	2.7	3.4								7.7	9.9
S		1.7	3.4	3.0		.3						6.1	10.9
SSW		.7	1.7	2.7	.3	.3						5.7	12.7
SW		.7	1.3	1.0								3.0	9.6
WSW		.3	.7	3.0	1.0							5.1	13.7
W		1.7	4.4	4.7								10.4	10.4
WNW		.7	1.0	2.0	1.0							4.7	12.4
WW		.7	1.7	2.4	.3	.3						5.1	12.4
NNW		.7	2.7	3.1	.3							10.4	12.2
VARIABLE													
CALM	////////////////////											10.8	////
TOTALS		11.7	27.9	47.1	4.7	1.3	.3					100.0	10.3

TOTAL NUMBER OF OBSERVATIONS: 297



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATION

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 7A-87  
MONTH: JUN HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.7	3.8	2.4								7.8	9.9
NNE		1.4	1.0	.7								3.1	9.1
NE		.7	1.0									1.7	7.6
ENE		1.4	1.7	.7								3.8	9.3
E		1.7	2.0	2.0								5.1	10.3
ESE		.7	.7	.3	.3							1.7	10.6
SE		1.4	2.7	1.0								5.1	9.2
SSE		1.7	3.8	1.7								6.5	8.7
S		.7	3.8	1.4	.3							5.8	10.1
SSW		2.7	1.7									4.4	6.8
SW		2.7	1.4		.7							4.1	8.5
WSW		1.7	1.0	.7								2.7	8.3
W		3.1	1.4	1.7								5.1	8.7
WNW		1.0	2.7	1.4								5.1	9.2
WW		1.0	3.1	1.7	.3	.7						6.5	10.5
NNW		.7	1.7	1.4								3.8	9.8
VA-103LE													
CALM	////////////////////											26.6	////
TOTALS		21.5	33.4	16.4	1.7	.3						107.0	6.8

TOTAL NUMBER OF OBSERVATIONS: 273



GLOBAL CLIMATOLOGY BRANCH  
USAF/FLYAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 7P-87  
MONTH: JUN HOURS(IST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS								TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40		
N		1.7	2.0	7.3	1.1	.2	.0		7.9	12.1
NNE		1.1	.8	1.7	.1				3.6	10.5
NE		.6	1.2	1.0	.2	.0			3.0	10.3
ENE		.6	1.6	1.1	.0				3.3	10.0
E		.6	2.4	1.7	.2				4.9	10.3
ESE		.7	1.9	1.7	.1		.0		4.5	10.5
SE		.6	1.9	1.8					4.2	10.4
SSE		1.4	2.5	2.1	.1				6.1	9.7
S		1.1	2.8	2.5	.3	.0	.0		6.8	10.7
SSW		1.0	1.3	1.9	.3	.0			4.4	11.2
SW		.6	1.1	1.0	.1	.0			3.1	9.7
WSW		.0	1.7	0.0	.3				4.9	10.6
W		1.0	2.5	0.6	.5	.1			7.9	11.1
WNW		.8	2.2	0.2	.3				5.4	10.8
W		.6	2.0	0.4	.3	.1			5.6	11.3
WNW		.7	1.9	3.9	.3	.0			6.8	11.8
VARIABLE										
CALM		13.6	24.8	33.9	4.2	.5	.1		17.4	////
TOTALS		13.6	24.8	33.9	4.2	.5	.1		100.0	8.9

TOTAL NUMBER OF OBSERVATIONS: 2760



GLOBAL CLIMATOLOGY BRANCH  
USAF/TAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27590 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(IST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-7	8-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50		
N		1.7	2.0	1.3							4.6	9.3
NNE		1.4	3.3	.3							5.2	7.8
NE		.7	2.6	.3							3.6	5.7
NNE	.7	1.7	2.3	.7	.3						4.9	9.3
E		1.7	1.6	1.3							3.9	9.3
ESE			2.0	1.3							3.3	10.0
SE		.7	1.6	.3							2.3	9.1
SSE		1.0	1.6								2.6	8.3
S		2.7	1.3	.3							3.9	7.5
SSW	.7	.7	1.3	.3							2.6	7.8
SW		.7	1.0	.7							2.3	6.9
WSW		2.7	.7	1.0							3.6	8.0
W		1.7	.3	.7	.3	.3					3.9	9.3
WNW		1.7	1.3	1.6							3.9	9.5
NW		1.3	2.6	1.0							4.9	8.8
NNW		2.6	2.3	2.6							9.5	9.4
VARIABLE												
CALC	////////////////////////////////////										35.7	////
TOTALS	.7	11.7	27.9	17.8	.7	.3					100.0	5.7

TOTAL NUMBER OF OBSERVATIONS: 305



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(IST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.4	2.6	.3							4.6	8.1
NNE		.7	2.6	.3							3.6	8.4
NE		.7	2.6	.7							3.9	8.8
ENE		.7	1.3	1.6							3.3	11.2
E		1.3	2.0	1.3							4.6	9.1
ESE		1.3	2.0	.3							3.6	7.8
SE		.7	1.6	.3							2.6	8.5
SSE		1.4	2.3	.7							4.6	8.0
S		1.3	2.9	.7							4.9	8.5
SSW		.7	.3								1.0	6.7
SW		2.7	.3	.7							2.9	8.2
WSW		.7	.7								1.3	6.5
W		2.6	1.3	1.6	.3						5.9	8.8
WNW		.7	1.0	1.0							4.2	7.7
NW		1.3	2.3	2.6							5.9	10.1
NNW		.7	2.3	1.3							5.9	8.9
VARIABLE												
CALM	////////////////////										37.5	////
TOTALS		25.4	25.0	13.4	.3						107.0	5.4

TOTAL NUMBER OF OBSERVATIONS: 307



GLOBAL CLIMATOLOGY BRANCH  
USAF/CLTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275250 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: JUL HOURS (LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		2.0	3.0	1.3	.3						6.6	9.1
NNE		.7	1.6	1.0							3.3	9.0
NE		.7	1.6	1.0							3.0	9.8
NNE		.7	2.0	.7							3.0	9.3
E		.7	2.0	0.3							4.3	10.3
ESE		1.0	1.6	1.0							3.6	8.7
SE		1.7	.7	.7							2.6	8.5
SSE		2.7	1.0	1.0							4.3	8.2
S		.7	.7	.3							1.6	9.0
SSW		.7	1.3	.7							2.6	9.3
SW		1.7	1.3	.3							3.0	8.2
WSW			.7	1.0							1.6	11.2
W		1.7	2.0	1.0							4.3	8.9
WNW		1.7	1.3	0.6							3.3	9.9
NW		1.7	2.3	1.0	.7						6.7	9.2
NNW		1.7	3.6	0.3							7.2	9.7
VARIABLE												
CALC	////////////////////////////////////										36.8	////
TOTALS		17.4	26.6	17.6	1.0						103.0	5.9

TOTAL NUMBER OF OBSERVATIONS: 704



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(UT): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66	
N	.7	.7	3.3	3.3							7.2	10.6
NNE			1.0	2.0							2.9	12.0
NE		.7	1.3	2.0			.3				4.2	11.6
ENE		.7	1.2	.7							2.3	9.7
E		1.7	1.0	.7							2.9	9.1
ESE		1.2	1.6	2.3							5.2	9.8
SE		1.2	1.3	.7							2.9	8.7
SSE		.7	1.3	1.3							3.3	10.2
S		1.7	1.6	2.0	.3		.3				5.5	11.4
SSW		1.7	2.6	1.3							4.9	9.2
SW		.7	2.0	1.3							3.9	9.3
WSW		.7	1.6	2.3							5.5	10.9
W		1.7	2.3	1.3							4.6	9.4
WNW		1.6	2.6	2.6	.3						7.2	10.4
W		1.7	3.6	2.6	.3						8.8	10.9
NNW		1.7	2.9	2.3							7.2	10.0
VARIABLE												
CALM											21.5	////
TOTALS	.7	14.7	32.2	37.3	1.0		.7				100.0	8.1

TOTAL NUMBER OF OBSERVATIONS: 307



PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS (LST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.3	2.3	4.0	1.3			.3				9.9	12.4
NNE		.7	1.0	2.6								4.0	11.7
NE		.7	1.3	1.0								3.0	9.6
ENE		.7	1.0	1.3								2.6	10.5
E		.7	1.0	1.7								3.0	11.1
ESE		.7	1.7	1.3				.3				3.6	12.6
SE			.3	2.6	2.0							5.0	10.5
SSE		.7		.3	1.3							3.0	11.6
S			.7	1.0	2.6	.3						4.3	12.2
SSW			1.7	1.3	1.3		.7					4.6	10.4
SW			1.0	2.3	2.3	.3						6.0	11.2
WSW			1.0	2.0	4.3	.3						7.6	11.2
W			.7	1.7	5.0	.3						7.3	12.7
WNW			.7	2.3	4.3	.7						7.0	12.3
W				4.0	4.0	1.0						8.0	12.2
WNW			.7	1.3	2.6							5.6	11.6
UNAVAILABLE													
CALM	////	////	////	////	////	////	////	////	////	////	////	13.6	////
TOTALS		.7	7.7	27.2	44.4	4.2	.7	.7				100.0	10.1

TOTAL NUMBER OF OBSERVATIONS: 704



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N			.7	4.7	.3						5.7	13.2
NNW		1.7	1.7	1.7	.3						5.0	10.1
NNE		1.7	.7	3.3							5.0	10.8
E			1.0	2.0							3.0	12.0
ESE		.7	1.7	1.3							3.7	10.5
E		.7	1.7	.7							2.7	9.5
SE			2.7	2.0	.3						5.0	10.9
SSE		.3	1.0	2.3							3.7	11.6
S			1.7	1.7	.3						3.7	11.7
SSW			1.3	2.3		.3					4.0	12.9
SW		1.7	.3	2.7							4.0	10.5
WSW		1.7	1.7	7.7	.7						7.0	11.5
W		.7	3.0	4.0	.3						12.0	12.0
WNW		.7	3.0	3.7	1.0						8.0	12.2
W		.7	2.7	6.3	.7						10.3	12.1
WNW		.7	1.7	4.0	.3						6.3	13.0
VARIABLE												
CALM	////////////////////										11.0	////
TOTALS		5.7	26.3	50.0	4.3	.3					100.0	10.4

TOTAL NUMBER OF OBSERVATIONS: 700



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275052 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: JUL HOURS (LST): 1800-2200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.7	2.0	5.9							8.9	11.5
NNE		.7	1.3	1.7							3.6	10.2
NE		1.7	1.3	2.0							4.2	9.5
ENE			.3	1.7							2.0	10.0
E		.7	2.0	1.3							3.6	9.9
ESE		.7	1.3	2.0							3.6	10.0
SE			1.7	1.7							3.3	10.8
SSE		1.0	1.3	.7							3.0	9.7
S		.3	1.3	.3	.3						2.3	10.1
SSW		1.7	1.7	1.0							4.3	8.9
SW		.7	2.6	1.0							4.0	9.5
WSW		1.0	2.6	3.0	.7						7.3	11.5
W		.7	2.6	5.0							8.3	11.2
WNW		1.7	3.3	3.3	.3						8.3	10.4
NW		1.7	2.3	3.3	.7						6.3	11.2
NNW		1.7	3.3	5.3	.3						10.6	10.9
VARIABLE												
CAL"	////////////////////////////////////										16.5	////
TOTALS		1.7	31.0	36.0	2.3						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS: 753



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 270900 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(UT): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL Σ	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-56		
N		2.4	2.6	1.6							5.9	9.1
NNE		2.0	1.3	.3	.3						3.9	8.1
NE		1.7	2.0	.3							3.6	8.2
ENE		.7	2.0	.7							3.4	8.9
E		.7	2.0	1.3							3.6	10.2
ESE		2.0	1.0	1.3	.7						5.6	9.9
SE		1.7	.7	.3							2.3	8.0
SSE		.7	1.3	.3							2.3	8.3
S		1.7	1.6	.7							3.6	8.4
SSE		1.7	.7	.3							2.0	8.0
SW		2.0	1.3	1.0							4.2	8.0
WSW		1.7	1.0	.7							3.3	4.0
W		2.0	2.0	1.6	.3						5.9	9.8
WNW		2.7	2.9	1.3							6.6	9.9
W		1.7	3.3	1.0	.3						5.9	9.5
WNW		.7	2.6	2.0							5.2	9.6
VARIABLE												
CALM	////////////////////////////////////										32.7	////
TOTALS		12.7	25.8	14.7	1.6						107.0	6.0

TOTAL NUMBER OF OBSERVATIONS: 706



CLIMATIC DATA BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 GSAFETAC  
 AIR WEATHER SERVICE/MAL      FROM HOURLY OBSERVATIONS

STATION NUMBER: 21551      STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87  
 MONTH: JUL      HOURS(EST): ALL

DIRECTION (true)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-7	8-13	14-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66			
0		1.7	2.3	2.9	2.7		2.7					6.7	10.7
15		2.7	1.7	1.2	2.1							3.2	9.5
30			1.7	1.3		2.1						3.2	9.7
45		2.6	1.5	1.2	2.0							3.1	10.2
60		2.7	1.6	1.4								3.7	9.9
75		2.6	1.5	1.3	2.1		2.7					3.7	10.2
90		2.7	1.6	1.3	2.7							3.2	9.7
105		2.7	1.3	1.1								3.2	9.3
120		2.6	1.5	1.1	2.0	2.1						3.7	10.0
135		2.7	1.7	1.7		2.1						3.2	9.6
150		1.7	1.4	1.2	2.0							3.2	9.4
165		1.7	1.4	2.1	2.2							4.6	10.5
180		1.6	1.5	1.7	2.0	2.7						6.5	10.7
195		1.6	2.7	2.1	2.2							6.4	10.4
210		2.7	2.9	1.3	2.5							7.2	10.7
225		1.9	2.6	1.1	2.1							3.1	10.4
240													
255													
270													
285													
300													
315													
330													
345													
360													
ALL												29.2	10.7
TOTAL		20.7	22.3	22.7	19.5	2.1	2.1	2.1				100.0	9.6

PERCENTAGE OF CALM: 1.04



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFD WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 270951 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(EST): 0000-0400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-7	8-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66		
N		2.0	1.0	.7							5.6	6.8
NE		1.6	1.0								2.6	7.3
E		.7	1.0	1.0							2.7	10.3
ENE		1.7	1.0	1.3							3.9	9.3
E		1.7	4.6	.7							6.6	8.9
ESE			1.7	1.0	.3						2.9	11.5
SE		.7	2.3	2.0	.7						5.2	11.2
SSE		1.7	1.7	1.3							3.9	9.0
S		1.7	1.3	1.3							3.4	9.8
SSW		1.7	1.7	.7							3.2	9.6
SW		.7	1.0	1.0							3.3	10.9
WSW		.7	.7	.3							1.6	9.2
W		1.6	1.3	1.0	.3						4.3	9.2
WNW		1.7	2.0	.7							4.6	7.6
W		1.7	3.3	1.3	.7						6.2	9.6
WNW		2.0	4.3	1.6							8.5	8.5
VARIABLE												
CALM	////////////////////										31.6	////
TOTAL		11.7	24.5	17.7	1.7	.7					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS: 705



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275907 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-97  
MONTH: ALL HOURS: 0100-0500

DIRECTION (0-360)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56		
N		1.4	2.3	1.0								6.9	7.8
NNE		1.7	3.3									4.6	7.6
NE		.7	1.7	1.0								3.3	9.4
ENE		.7	1.3	.7	.3							3.0	10.6
E		1.7	4.0	.3								5.6	8.7
ESE		1.7	3.6	2.0								6.6	9.5
SE		1.7	2.0	.3	.3							4.0	9.3
SSE		.7	2.0	1.0								3.3	10.0
S			1.7	.7								2.3	10.0
SSW		.7	.7	1.0								2.3	9.4
SW		1.7	1.3	1.0								3.3	9.8
WSW		1.7	.7	1.0								2.6	9.5
W		.7	1.3	1.0								5.6	7.5
WNW		1.0	2.6	1.7								5.3	9.8
WW		1.7	2.3	.7	.7							5.3	9.3
WNW		1.7	3.3	2.0								5.6	8.9
VARIABLE													
CALM	////////////////////											29.4	////
TOTAL		17.7	34.0	17.0	1.7							100.0	8.3

TOTAL NUMBER OF OBSERVATIONS: 702



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS (LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.7	4.6	1.7							7.9	8.4
NNE		1.7	1.7	1.7							2.6	9.8
NE		1.7	1.7	1.7							3.6	8.7
NNE		1.7	2.3	1.7							4.6	8.4
E		1.7	2.6	1.7							5.3	9.3
ESE		1.7	3.3	1.7							5.3	9.6
SE		1.7	2.3	1.7							4.6	9.5
ESE		1.7	2.3	2.3							5.9	9.8
S		1.7	1.7	1.3							1.7	10.0
SSW		1.7	1.7	1.7			1.7				4.7	11.9
SW		1.7	1.7	1.7							2.6	8.9
SSW		1.7	1.7	1.7							3.6	9.9
W		2.6	1.7	1.7							5.9	8.6
WSW		2.6	2.6	1.7							5.9	8.7
W		1.7	1.7	1.7	1.3						5.7	10.5
WNW		1.7	3.3	1.7	1.3						5.9	9.3
VARIABLE												
CALM	////////////////////										26.4	////
TOTAL		10.0	31.4	27.1	1.7		1.7				107.0	8.8

TOTAL NUMBER OF OBSERVATIONS: 323



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 279950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 70-87  
MONTH: ALL HOURS (LST): 0900-1100

DIRECTION (DIRECTION)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.7	3.3	1.0	.3						4.9	10.5
NNE		1.4	2.3	2.0							5.9	9.3
NE		.7	.7	1.0							1.6	11.2
NNE		1.4	2.0	.7							4.3	8.2
E		.7	3.6	.7	.3						5.2	10.1
ESE		.7	.7	1.0							2.3	9.1
SE		.7	.7	2.6							3.9	10.7
SSE		.7	2.0	2.6	.3						5.2	11.6
S		.7	1.6	3.3	.3						5.9	11.6
SSW		1.4	1.3	2.3							4.6	10.7
SW			1.6	.7							2.3	10.0
WSW		1.4	1.6	2.6	.3						6.2	10.7
W		1.4	3.3	3.6	.7						8.2	11.2
WNW		1.4	2.6	1.6							5.2	9.4
W		1.4	1.6	3.9	.7						7.5	11.3
WNW		1.4	3.0	3.0	.3						8.5	10.8
VARIABLE												
CALM	////////////////////										18.0	////
TOTALS		10.4	30.1	30.5	2.0	1.0					100.0	5.6

TOTAL NUMBER OF OBSERVATIONS: 705



GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
USAFETAC      FROM HOURLY OBSERVATIONS  
AIR WEATHER SERVICE/MSC

STATION NUMBER: 475910 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS (LST): 1200-1400

WIND SPEED IN KNOTS														
DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66	TOTAL %	MEAN WIND	
N		.7	2.7	3.3	.3							6.7	11.2	
NNE			1.3	0.7								4.0	12.0	
NE		.7	1.0	.7								2.0	9.7	
NNE			.7	0.3								3.7	11.1	
E		1.7	2.0	1.3	.3							4.7	10.5	
ESE		0.3	.3	1.7								4.3	9.9	
SE			1.7	0.7								4.3	10.2	
SSE	.7	.7	1.3	0.3	.3		.3					4.7	11.7	
S		.7	2.0	4.0	1.3							9.0	12.8	
SSW		.7	1.3	3.3								5.3	11.9	
SW			.3	.7								1.0	10.7	
WSW		.7	0.0	3.0	.3							6.0	11.5	
W			3.0	0.7	.7	.3						11.7	13.2	
WNW			0.3	0.3	.3							6.0	10.5	
NW		1.7	3.0	4.7	.3							9.0	11.2	
NNW		.7	1.7	0.3	1.0							9.7	10.6	
VARIABLE														
CALL	////////////////////////////////////												9.7	////
TOTALS	.7	1.7	20.7	40.3	5.0	.3	.3					107.0	10.7	

TOTAL NUMBER OF OBSERVATIONS: 300



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27592 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(IST): 1500-1700

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66	TOTAL %	MEAN WIND
N		.7	2.3	3.6	.3	.3						7.1	11.8
NNE		.7	.7	1.7	.3							3.0	12.1
NE			1.0	2.0								3.0	11.3
NNE		.7	1.0	1.0	.3							2.6	11.9
E		.7	.3	1.0								1.7	10.0
ESE		.7	2.3	2.6								5.3	11.4
SE		.7	2.0	1.3	.3							4.3	10.4
ESE		.3	2.0	2.0	1.0							5.3	11.8
S		1.7	1.7	4.3	1.0	.3	.3					8.9	13.2
SSW			.3	2.0								2.3	12.9
SW		.7	1.0	1.3								2.6	11.0
SSW		.7	1.7	5.0	.7							7.9	12.4
W		.7	3.0	6.9		.3	.3					11.2	12.9
WSW		.7	1.0	5.3		.7						7.1	12.7
W		.7	2.3	5.0	.3							8.3	12.0
WSW		.7	2.6	5.6	1.0	.3						9.2	13.7
VARIABLE													
CALM	////////////////////											2.9	////
TOTAL		1.7	24.4	57.5	5.3	1.7	.7					107.0	11.1

TOTAL NUMBER OF OBSERVATIONS: 703



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27525 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: AUG HOURS (LST): 1900-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.6	3.6	3.0							8.2	10.0
NNE		1.6	.7	2.2	.3	.3					5.2	11.9
NE			.7	.3							1.0	10.0
ENE		.7	1.6	3.0							4.9	11.2
E		.7	2.0	1.6							4.3	10.6
ESE		1.7	1.6	1.0	.3						4.3	9.2
SE		1.3	1.3	1.0							3.6	8.9
SSE		1.7	3.3	1.6	1.0						6.9	10.5
S		.7	2.0	3.0							5.2	11.5
SSW			.7	1.3							2.0	12.0
SW		.7	1.0	1.0	.3						3.0	10.3
WSW		1.7	2.6	2.0	.7						7.2	9.8
W		2.0	2.3	4.3		.3					8.9	10.5
WNW		1.7	2.6	3.7	.3						8.9	11.0
W		1.6	2.6	2.3	.3						6.9	10.4
WNW		1.7	1.6	4.3							6.9	11.3
VARIABLE												
CALM	////////////////////										12.8	////
TOTALS		10.4	31.1	35.7	3.3	.7					100.0	9.2

TOTAL NUMBER OF OBSERVATIONS: 104



GLOBAL CLIMATOLOGY BRANCH  
USAF/CIAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(IST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL 1	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		0.7	2.2	1.0								5.6	9.5
NNE		1.0	1.3	1.0	.7							3.9	9.8
NE		.7	1.3	.7								2.6	9.3
NNE		1.7	1.0	1.0								3.3	5.6
E		2.7	2.0	0.3								6.9	9.0
ESE		.7	.7	1.3								2.3	10.6
SE		.7	2.3	1.0	.3							4.3	10.4
SSE		1.7	2.7	.3								3.9	8.0
S		.7	1.6	1.3								3.6	9.5
SSW		1.7	3.3	1.3								5.6	9.1
SW		.7	1.6	.3								2.6	8.5
WSW		1.6	1.3	.7	.3							4.2	8.2
W		1.3	1.0	0.0								4.3	9.8
WSW		1.6	1.7	1.3								4.7	9.1
W		1.3	1.3	1.3	.3							5.3	8.9
WNW		4.9	4.3	0.0								11.8	8.7
VERIALE													
CALM	////////////////////											24.7	////
TOTALS		25.7	29.9	19.4	1.6							107.0	6.8

TOTAL NUMBER OF OBSERVATIONS: 314



GLOBAL CLIMATOLOGY BRANCH  
USAF/CITAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 273951 STATION NAME: KAZAN, USSR

PERIOD OF RECORD: 78-87  
MONTH: ALL HOURS(UT): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66	
N		1.3	2.8	1.8	.1	.0					6.6	9.4
NNE		1.0	1.4	1.4	.2	.0					4.0	10.0
NE		.5	1.1	.9							2.4	9.9
ENE		.0	1.4	1.3	.1						3.7	9.8
E		1.1	2.6	1.2	.1						5.0	9.5
ESE		.9	1.7	1.6	.1						4.2	9.9
SE		.9	1.8	1.5	.1	.0					4.3	10.4
SSE		.9	2.1	1.6	.2		.0				4.9	10.4
S		.9	1.6	2.3	.3	.0	.0				4.9	11.7
SSW		.7	1.2	1.7			.0				3.7	10.7
SW		.9	1.0	.9	.0						2.6	9.8
WSW		1.7	1.4	1.9	.2	.0					4.9	10.4
W		1.9	2.1	2.5	.1	.2	.0				7.5	11.0
WNW		1.0	2.2	2.4	.1	.0					5.9	10.3
NW		1.4	2.3	2.6	.4						6.7	10.6
NNW		1.9	3.0	2.3	.2	.1					5.4	10.5
VARIABLE												
CALM	////////////////////										20.3	////
TOTALS		17.0	29.7	29.9	2.5	.5	.0				100.0	9.2

TOTAL NUMBER OF OBSERVATIONS: 2425



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIP WEATHER SERVICE/MFL

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27525 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTHS: SEP HOURS: 0100-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50		
N		1.7	2.1	.3	.7						4.8	9.4
NNE		1.0	1.7	.7							3.4	9.0
NE		.7	.7	.7	.3						2.1	10.8
NNE		.7	1.0	1.7	.3						3.7	11.9
E		.7	3.4	1.4	.3						5.8	9.6
ESE		1.4	4.2	1.7							7.3	9.4
SE		.7	1.7	.7							3.1	9.6
SSE			2.1	2.1							4.2	11.7
S		1.4	1.7	1.4							4.5	8.9
SSE		2.1	3.5	1.0		.7	.3				7.3	10.9
SW		1.1	2.8	.3							4.2	7.2
WSW		.7	2.4	1.0		.7					4.8	11.0
W		2.1	2.4	2.4	1.0						8.7	10.8
WNW		1.4	1.0	2.1	.3						4.8	10.8
W		.7	1.7	3.4	.7						6.5	11.6
WNW		1.7	1.4	1.0	.3						4.8	9.5
VARIABLE												
CALM	////////////////////										18.5	////
TOTALS		14.7	34.6	20.7	3.8	.7	.7	.3			100.0	8.2

TOTAL NUMBER OF OBSERVATIONS: 796



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS (LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-63		
N		1.7	2.7	1.7	.3							6.5	9.8
NNE		.7	1.7	.3								2.7	9.0
NW			.7	.3	.3							1.4	11.8
NE		.7	1.4	1.0	.3							3.1	11.2
E		1.4	3.1	0.4								7.9	10.0
ESE		.7	3.8	1.4								5.5	10.1
SE		.7	3.1	.7	.3							4.5	10.2
SSE		1.7	1.7	12.7								5.5	10.6
S		1.4	2.4	1.0	.3							4.8	9.8
SSW			.7	1.4				.3				2.4	15.6
SW		1.4	2.1	1.4								4.5	9.5
WSW		1.4	1.7	1.0	.3							4.2	9.3
W		1.7	2.4	2.7	.3							7.2	10.4
WNW		0.4	.7	7.1								6.2	9.8
WW		.7	2.7	.7	.3							4.5	9.0
NNW		1.4	1.7	0.1	.7							5.8	10.9
VARIABLE													
CALM	////////////////////											22.3	////
TOTALS		16.7	32.6	27.1	3.4			.3				100.0	7.9

TOTAL NUMBER OF OBSERVATIONS: 721



GLOBAL CLIMATOLOGY BRANCH  
USAF/CLAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 274951 STATION NAME: KAVAN USNR

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS(EST): 0600-0800

DIRECTION (DEGREES)	1-5	6-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66	TOTAL %	MEAN WIND
N		1.4	2.4	1.4		4.3					6.5	10.2
NNE		4.7	1.0	1.0	4.3						11.0	10.8
NE		1.4	2.4	4.3	4.3						12.8	9.0
NNE		4.7	1.7	1.4							7.8	10.4
E		1.4	3.8	0.1							5.3	9.9
ESE		4.7	3.1	1.4							9.2	10.4
SE		1.4	2.4	0.1							3.9	9.5
SSE			2.4	0.1							2.5	11.3
S		1.4	3.8	1.0	4.3						10.5	9.1
SSW			2.4	1.4	4.3						10.5	11.4
SW		1.4	1.0	2.4		4.3					9.1	10.5
WSW		1.4	1.4	1.4	4.3						8.5	9.9
W		7.1	2.4	0.4							9.9	9.2
WNW		1.4	1.0	0.4							2.8	10.7
W		1.4	1.4	0.1	4.3						7.2	10.7
WNW		1.4	1.0	0.1	4.3	4.3					11.1	11.5
VARIABLE												
CALM	////////////////////											16.5
TOTALS		16.1	30.2	21.7	21.4	11.7					100.0	9.5

TOTAL NUMBER OF OBSERVATIONS: 742



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275900 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 75-87  
MONTH: SEP HOURS (LST): 0100-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N			1.0	2.9	1.0						4.4	14.1
NNE		.7		2.9							3.1	11.8
NE		.7	.3	.7	.3						2.0	10.8
ENE		1.0	.7	1.0	.3						3.1	10.1
E		1.0	3.1	2.9							7.5	10.6
ESE		1.0	1.7	1.9							4.1	9.3
SE		1.7	3.1	2.9							6.5	10.0
SSE		1.0	1.0	2.0							4.1	10.0
S		.7	1.7	3.1	.3	.3					6.1	12.2
SSW			3.4	2.7							6.1	10.9
SW		1.0	1.9	2.9	.7						5.4	10.9
WSW			1.7	2.7	.3	.3					7.1	12.6
W		1.7	4.8	5.1	.3		.7				12.6	11.4
WNW		.7	1.9	4.3	.3						7.1	12.3
W		1.7	.7	2.3	.3						4.1	11.4
WNW			2.9	2.9	.7						5.4	12.4
VARIABLE												
CALM	////////////////////										11.2	////
TOTAL		11.4	29.3	41.8	4.9	.7	.7				100.0	10.1

TOTAL NUMBER OF OBSERVATIONS: 274



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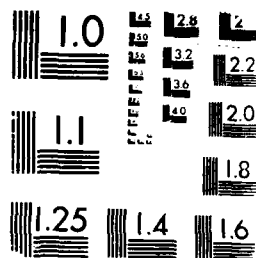
HAZARD USSR LIMITED SURFACE OBSERVATIONS CLIMATIC  
SUMMARY (LISOC) PARTS A-F (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT AFB IL JUN 88  
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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275450 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87  
MONTH: SEP HOURS(UT): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N			1.7	4.2	.3						6.3	12.9
NNE		.7		1.4	.3	.3					2.8	13.5
NE			.7	.7							1.4	10.5
NNE		1.0	.7	2.1							3.8	10.2
E		.7	1.4	3.5							5.2	11.2
ESE		.7	.7	2.1	.3						3.5	11.9
SE		.3	1.7	1.7							3.8	10.7
SSE		.7	1.4	4.9							6.6	12.2
S		.7	1.0	4.2	.3						6.3	11.7
SSW		.7	1.7	4.9	1.0						8.4	12.8
SW		.7	1.4	4.5							6.6	11.9
WSW		1.7	1.7	2.1	.3	.3					6.3	11.0
W		.7	3.5	4.0	1.4						13.3	12.7
WNW			1.4	4.9	2.4		.7				9.1	14.6
W			1.4	3.1	1.0						5.6	13.3
NNW		.7	.7	3.1	1.0						5.2	13.1
VARIABLE												
CALM	////////////////////										5.6	////
TOTALS		5.7	21.0	55.6	9.7	.7	.3				100.0	11.7

TOTAL NUMBER OF OBSERVATIONS: 734



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS (LST): 1600-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.7	1.0	3.4	.7							5.5	12.8
NNE		.7	.7	2.0								3.4	10.4
NE			1.0	.7	.3							2.0	12.2
NNE			.3	1.0								1.4	11.0
E		1.7	1.7	2.4	.3							6.1	9.9
ESE			1.7	.3								2.0	9.3
SE		.7	1.7	2.0								4.1	10.8
SSE			.7	5.1								5.8	12.6
S		1.0	1.4	3.8	1.0							7.2	12.0
SSW		.7	1.7	2.7	2.4							7.2	13.6
SW		.7	.7	2.7	.3							4.1	12.4
WSW		.7	2.7	6.1	.3	.7						10.6	13.2
W			4.1	5.5	1.0	.3						14.2	13.0
WSW		.7	.7	4.8	1.4	.3						7.8	14.2
W			1.0	3.8	1.4	.3						6.5	14.9
WNW		.7	2.0	1.7	1.4							5.8	12.4
VARIABLE													
CALM	////////////////////											6.5	////
TOTAL		8.4	23.2	51.2	10.6	1.7						100.0	11.8

TOTAL NUMBER OF OBSERVATIONS: 292



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27525 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS (LST): 1800-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.4	2.1	2.1	.4							6.0	10.1
NNE		1.4	1.1	.7	.7							4.2	10.3
NE			.7	.4								1.1	10.7
NNE			2.5									2.5	9.7
E		1.4	2.5	2.1								6.0	9.8
ESE		.7	1.4	.7								2.8	9.0
SE		.7	1.8	2.5								4.9	10.6
SSE		1.1	1.4	2.5								4.9	10.1
S		1.1	2.1	2.5	.4							7.0	10.9
SSW		1.1	.7	2.1	1.1							4.9	12.9
SW		1.4	2.1	1.4	.7							6.0	10.6
WSW		1.1	1.8	2.1	.4							5.7	10.5
W		1.4	3.5	2.5		.4						9.1	10.7
WNW		1.1	2.5	5.3	.7	.4						9.8	12.4
W		.4	2.1	1.5	.7							5.6	11.3
WNW		1.4	2.8	2.5			.4					8.4	11.0
VARIABLE													
CALM	////////////////////											11.6	////
TOTALS		10.7	10.9	35.1	4.9	.7	.4					100.0	9.6

TOTAL NUMBER OF OBSERVATIONS: 255



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 70-87  
MONTH: SEP HOURS(LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56		
N		.7	.3	1.7	.3							2.7	13.1
NNE		1.7	.7	1.0	.7							4.1	10.2
NE		.7	1.4	1.0								2.7	10.3
NNE		.7	2.7	1.0								4.1	9.8
E		.7	3.8	2.0								6.1	10.2
ESE			1.7	2.4	.3							4.4	11.6
SE		1.0	1.7	1.0								3.6	8.7
SSE		.7	2.4	3.1								5.8	10.7
S		1.7	2.0	2.7		.3						6.8	10.7
SSW		.7	.3	2.4		.3						3.8	12.8
SW		.7	1.7	1.4								3.8	9.8
WSW		1.7	2.4	1.0	.3							5.5	9.4
W		2.7	3.1	2.4	1.0							7.6	10.7
WNW	.3	.7	1.7	2.0	.7							5.5	11.1
NW		1.4	3.8	1.7	1.0							7.5	10.4
NNW		.7	2.0	2.0								4.4	10.6
VARIABLE													
CALM	////////////////////											19.5	////
TOTALS	.7	13.7	31.4	33.0	4.4	.7						100.0	8.5

TOTAL NUMBER OF OBSERVATIONS: 293



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27545 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 70-87  
MONTH: SEP HOURS(UT): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.3	1.5	2.2	.5	.7					5.3	11.4
NNE		1.7	.9	1.2	.3	.7					3.4	10.4
NE		.3	.9	.6	.2						2.1	10.5
ENE		.5	1.4	1.2	.1						3.1	10.5
E		1.7	2.9	3.5	.1						6.5	10.2
ESE		.6	2.2	1.4	.1						4.3	10.2
SE		.7	2.2	1.6	.7						4.6	10.0
SSE		.5	1.6	3.1							5.1	11.2
S		1.1	2.0	2.6	.3	.1					6.2	10.8
SSW		.6	1.8	3.3	.6	.2	.0	.1			5.5	12.4
SW		1.2	1.6	2.1	.2	.7					5.2	10.3
WSW		1.1	2.2	2.3	.3	.2					6.2	11.2
W		1.6	3.5	4.5	.6	.1	.1				10.4	11.3
WNW	.1	1.0	1.3	3.7	.7	.1	.0				6.9	12.3
NW		.6	1.6	2.5	.7	.7					5.7	11.7
NNW		.0	1.8	2.2	.6	.7	.0				5.6	11.4
VARIABLE												
CALM											14.0	////
TOTALS	.1	13.7	29.9	36.1	5.4	.7	.2	.1			100.0	9.5

TOTAL NUMBER OF OBSERVATIONS: 2713



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275907 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(LEST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.6	2.7	3.3		.7					7.2	10.8
NNE			1.0	.7							1.6	10.0
N		.7	.7	.3							1.6	7.6
NNE			.7	.3							1.0	11.3
E		.7	1.6	.7							3.0	9.1
ESE		1.6	1.3	.7							3.6	8.2
SE		.7	1.0	3.6	.3	.3					5.9	12.6
ESE		.7	1.6	1.2	.3						3.6	11.0
S		2.3	2.0	3.9	.3						8.6	10.6
SSW		1.7	1.0	3.9	.7						6.9	12.1
SW		.7	3.0	2.3	.3						5.9	11.1
WSW		1.0	3.2	3.3	.7						8.9	10.5
W		.7	.7	3.0	.7						4.6	12.4
WNW			2.6	4.3							6.9	11.9
W		1.0	1.3	2.3	.7	.3					5.6	12.3
WNW		1.7	2.3	2.6	.3						7.6	10.4
VARIABLE												
CALM	////////////////////										17.4	////
TOTALS		12.2	27.6	36.5	4.3	1.7					100.0	9.1

TOTAL NUMBER OF OBSERVATIONS: 304



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275052 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: OCT HOURS (LST): 0300-0500

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-7	8-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.7	2.9	2.9							6.9	10.2
NNE			1.3	.7							2.0	11.0
NE		1.7	.3	.3	.3						2.3	10.4
NNE		.7	1.0	.3							1.6	9.6
E			2.0								2.0	9.3
ESE		1.0	1.0	1.6							3.6	10.0
SE		.7	1.6	2.3	.7						5.2	12.4
SSE		.7	1.3	2.3							5.2	11.1
S		1.0	2.3	2.3	.3		.3				7.2	11.9
SSW		.3	2.9	2.6	.3						7.2	11.0
SW		2.6	1.3	2.7	.3						8.2	10.4
WSW		1.0	1.6	2.3							4.9	10.8
W		.7	1.0	2.9	.7						6.2	12.7
WNW		.7	1.6	2.6	.3						6.2	11.8
W		1.3	1.3	2.9	.3	.3					7.2	11.6
WNW		1.0	2.0	1.6	.7						5.2	10.8
VARIABLE												
CALC	////////////////////////////////////										19.0	////
TOTALS		13.4	25.5	37.6	2.9	1.7	.3				100.0	9.0

TOTAL NUMBER OF OBSERVATIONS: 706



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: OCT HOURS(LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.7	3.0	1.7	.7							5.7	11.3
NNE			1.0	.7								1.7	11.6
N		.3	1.0	.3								1.7	9.2
NNE		.7	.3	.7								1.7	9.2
E		1.0	1.7	.7								3.4	8.4
ESE		.7	1.3	1.7								3.7	10.4
SE		.3	2.3	3.4	.3	.3						6.7	12.4
SSE		.7	.7	2.0		.3						3.4	12.9
S		.7	2.3	5.4	.3		.3					9.1	12.4
SSW		.7	2.0	3.7								6.4	10.9
SW		1.7	2.3	7.7								7.7	10.4
WSW		.7	1.0	3.4								5.0	10.8
W		1.0	1.3	7.4	.3							6.0	11.4
WNW		2.0	1.3	1.7	1.0							6.0	10.5
NW		.7	1.3	3.7		.3						5.7	12.5
NNW		2.3	3.4	1.7		.3						7.7	9.8
VARIABLE													
CALM	////////////////////											18.5	////
TOTALS		15.1	28.5	37.6	2.7	1.7	.7					103.0	9.0

TOTAL NUMBER OF OBSERVATIONS: 078



GLOBAL CLIMATOLOGY BRANCH  
DTAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: OCT HOURS(UT): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N			2.0	1.3	1.0							4.2	11.5
NNW			.7	2.0	.3							2.9	12.8
NNE		.3	1.0	1.3								2.6	11.0
E			2.0	.3								2.3	9.4
ESE		.7	1.0	.7	.3							2.6	10.4
ENE		.7	1.3	2.0								3.6	10.9
SE		.7	.3	2.6	.3							3.9	12.4
SSE		.7	2.0	1.0	.3							5.9	11.7
S			3.9	5.9	1.3							11.1	12.5
SSW		1.3	2.6	2.9	.3							6.9	10.9
SW		1.3	2.3	3.6	.3							7.2	11.2
WSW		1.3	1.0	2.9	.3							5.6	10.6
W		1.3	2.6	4.2								7.8	10.8
WNW		.7	2.3	5.0	.7							8.8	12.4
NW		1.3	1.3	2.9	1.0							6.5	11.8
NNW		.7	2.5	3.3								6.5	10.5
VARIABLE													
CALM	////////////////////											11.4	////
TOTALS		5.3	25.8	44.1	6.2							100.0	10.2

TOTAL NUMBER OF OBSERVATIONS: 300



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275953 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-97  
MONTH: OCT HOURS/LEST: 1200-1400

DIRECTION (DEGREES)	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-53	54-56	TOTAL %	MEAN WIND
N		1.7	1.7	0.0	1.0							5.0	12.7
NNE		1.7	1.0	1.7	1.3	1.3						7.7	11.7
N		1.0	1.7	1.3	1.3							4.4	10.8
ENE			1.0	1.3								1.3	9.5
E		1.0		1.7	1.3							3.0	10.6
ESE			1.3	1.3								2.7	12.0
SE			1.7	2.3								2.7	14.0
SSE			2.0	1.7	1.3							6.7	12.2
S			1.7	6.0	1.3							9.1	13.5
SSW		1.7	1.0	6.0	1.3	1.3						9.4	13.6
S4		1.7	2.7	4.0	1.7							9.1	11.8
WSW			1.7	3.0	1.3							5.0	12.9
W	1.7	1.7	4.0	6.4	1.7							15.1	11.6
WNW		1.7	1.7	5.0	1.3							8.7	12.9
W			2.3	4.4	1.3							7.7	12.5
WNW			1.0	1.3								2.4	11.9
VARIABLE													
CALM												7.4	////
TOTALS	1.7	6.7	24.2	50.7	9.4	1.3						100.0	11.4

TOTAL NUMBER OF OBSERVATIONS: 276



GLOBAL CLIMATOLOGY BRANCH      PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
 USAF/ETAC      FROM HOURLY OBSERVATIONS  
 AIR WEATHER SERVICE/MAC

STATION NUMBER: 2799      STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
 MONTH: OCT      HOURS(UT): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-59	
N		1.7	1.6	2.6	1.0	.3					5.9	12.2
NNW		1.7	2.0	1.3							3.6	10.0
NNE		1.7	1.3	1.6	.3						4.6	10.4
ESE		1.7		.3							.7	8.0
E			.7	1.3							2.0	12.0
ESE		1.7	.7	.3							1.3	9.0
SE		1.7	.3	2.9							3.9	12.3
SSE		1.7	1.6	4.9	.7						7.5	13.2
S		1.7	1.3	5.2	.7						8.5	13.6
SSW				4.2	.7	.7					5.6	15.1
SW		1.6	1.6	7.9	.3	.3					7.9	11.7
WSW		1.0	.3	5.6	.3						7.2	13.0
W		1.7	4.1	7.6	1.0						14.4	12.0
WNW		1.7	1.6	6.3	.3						8.8	12.9
WN		1.7	2.9	2.9	.3						6.2	10.9
NNN		1.7	1.0	0.3	.7						4.2	12.3
VARIABLE												
CALM	////////////////////										7.2	////
TOTALS		9.9	21.6	54.9	6.2	1.3					100.0	11.5

TOTAL NUMBER OF OBSERVATIONS: 700



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: OCT HOURS(LEST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.7	1.7	3.4	.7							8.4	10.0
NNE			1.7	1.7								3.4	11.2
NE		.7	1.0									1.7	7.5
NNE		.7	1.0	.3								1.7	9.2
E			.3	.7								1.0	10.7
ESE		1.0	1.3	1.3								3.7	9.8
SE			1.7	2.7	.3							4.7	11.9
SSE		.3	1.0	4.0								5.4	11.9
S		1.7	2.3	4.4	.3							8.7	11.7
SSW		.3	2.3	3.4	.3							6.4	12.2
SW		.7	2.0	3.4								6.7	11.1
WSW		1.0	2.0	2.0								7.0	9.0
W		1.7	3.4	3.7	.7							8.7	11.5
WNW		.7	2.2	4.7	.3							8.1	11.4
NW		.7	.7	2.7	.7							4.7	12.4
NNW		.7	1.0	2.3		.3						4.4	11.9
VARIABLE													
CALM	////////////////////											14.4	////
TOTALS		17.4	25.4	40.6	3.0	.3						100.0	9.5

TOTAL NUMBER OF OBSERVATIONS: 298



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: OCT HOURS (LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.7	1.3	2.7								5.7	9.8
NNE		.7	1.3	1.0								3.0	10.4
NF		1.7	1.0									2.7	6.8
ENE		.7	1.0	.7								2.4	9.4
E		.7	.7	.3								1.7	9.5
ESE		.7	1.0	1.0								2.4	10.3
SE		.7	1.3	2.0	1.0							5.1	12.6
SSE		.7	2.0	3.0								5.7	10.1
S		1.0	3.4	2.4	.7	.3						7.7	11.7
SSW		1.0	4.7	3.4								9.1	10.3
SW		1.7	1.7	3.7								7.1	10.7
WSW		.7	1.3	3.0								5.1	11.0
W		2.0	1.7	5.7	.7							10.1	11.7
WNW		1.7	1.0	3.0	.3							5.7	11.1
W		.7	.7	3.4	.3							5.1	12.3
WNW		.7	2.7	3.4	.3	.3						7.4	11.6
VARIABLE													
CALM	////////////////////											14.5	////
TOTALS		10.7	26.9	30.7	3.4	.7						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS: 277



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(LOCAL): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.7	2.0	2.5	.5	.1						6.1	11.2
NNE		.7	1.2	1.2	.1							2.7	11.1
NE		.9	1.0	.7	.1	.0						2.7	9.6
NNE		.3	.9	.4								1.6	5.5
E		.5	1.0	.7	.1							2.3	10.0
ESE		.7	1.0	1.1								2.8	9.7
SE		.6	1.1	2.7	.3	.2						4.8	12.5
SSE		.4	1.5	7.1	.2	.3						5.3	11.8
S		.2	2.4	4.7	.7	.2	.0	.2				8.7	12.3
SSW		.7	2.1	4.1	.5	.1						7.5	12.0
SW		1.7	2.1	3.6	.2	.3						7.3	11.1
WSW		1.1	1.6	3.2	.2							6.1	11.1
W		1.1	2.4	5.0	.6							9.1	11.7
WNW		.6	1.8	4.3	.5							7.4	12.0
W		.7	1.5	3.3	.5	.1						6.1	12.0
WNW		.5	2.1	2.4	.2	.1						5.8	11.0
VARIABLE													
CALM	////////////////////											13.7	////
TOTALS	.7	11.8	25.9	43.1	4.6	.8	.0	.2				100.0	9.9

TOTAL NUMBER OF OBSERVATIONS: 2413



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275457 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		1.7	.7	3.1	.7						6.3	11.8
NNE		.7	1.4	1.7							3.5	11.4
NE		.7	1.0	1.0							2.4	10.3
NNE		.7	1.0	1.4							2.8	11.0
E			.7	.3	.3						1.4	12.3
ESE		.7	1.4	.3							2.1	9.0
SE		1.0	.7	1.7	.7	.3					4.5	13.0
SSE		1.4	1.4	4.9	3.1						10.8	13.3
S			3.1	8.0	3.5	1.4	.3				16.4	15.0
SSW		.7	1.7	1.7	.7						3.8	12.7
SW		1.0	2.4	3.8	.3	.3					4.0	12.1
WSW		1.0	2.4	4.5	.3	.3					4.7	11.9
W		.7	1.4	4.2	.7	.3	.3				7.7	13.6
WNW		1.4	1.4	3.5	.7						7.0	10.9
NW			.3	1.4	.3						2.1	13.2
NNW		1.0	1.0	1.0			.3				3.5	11.7
VARIABLE												
CALM	////////////////////										9.1	////
TOTALS		11.1	21.6	42.9	11.5	2.9	1.0				100.0	11.5

TOTAL NUMBER OF OBSERVATIONS: 257



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(IST): 0300-0500

DIRECTION (IN SPEED)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.7	3.1	1.7	.3						5.8	10.3
NNE		.7	.7	1.4							2.4	10.3
NE		.7	.7	1.0							2.1	10.7
ENE		.7	1.0	1.0							2.4	10.3
E		.7	.7	.3							1.0	9.3
ESE		.7	2.1	.7							3.1	9.3
SE		.7	1.0	2.4	1.7	.7					6.2	13.7
SSE		.7	1.0	4.8	2.1	.7					8.9	14.3
S		.7	1.7	7.5	2.7	1.7					14.0	16.3
SSW		.7	3.1	2.4	1.0		.7				8.6	12.6
SW		.7	1.7	2.7	.3						5.1	11.5
WSW		.7	2.1	4.1	.3	.3					7.5	11.8
W		.7	3.1	5.1	1.7						10.3	12.8
WSW			1.4	3.8		.7					5.5	13.3
W			1.0	1.0							2.1	11.7
WNW		.7	1.0	.7	.3		.3				3.1	13.1
VARIABLE												
CALM	////////////////////										12.0	////
TOTALS		6.7	25.0	41.6	10.6	3.4	.7				100.0	11.2

TOTAL NUMBER OF OBSERVATIONS: 292



GLOBAL CLIMATOLOGY BRANCH  
USAF/CIAC  
AIR WEATHER SERVICE/MAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS (LST): 0600-0800

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.7	.7	3.4	.3							4.8	12.8
NNE		.7	1.4	1.4								3.1	10.2
NE			.7	1.0								1.4	11.5
NNE		.7	2.1									2.8	8.3
E		.7	1.0	1.7								3.4	10.6
ESE		.7	1.4	.3								2.1	8.7
SE		.7	.7	2.4	.3							4.1	11.9
SSE		.7	2.4	6.2	2.4	1.4	.3					13.1	14.8
S		.7	3.4	7.2	3.1	1.0	.3					15.9	14.2
SSW		1.0	2.8	2.8	1.0	.3						7.9	11.8
SW		.7	2.4	2.4	.7							6.2	11.8
WSW		1.0	.3	3.4	.3							5.2	11.9
W		.7	2.4	4.5	.3	.3						8.3	12.1
WSW		.7	2.8	2.4	.3							6.6	11.2
WNW		.7	.7	1.0								2.4	10.0
NNW		.7	.7	1.7	.7	.3						3.8	14.1
VARIABLE													
CALM	////////////////////											9.0	////
TOTALS		9.1	25.5	40.4	9.7	3.4	.7					100.0	11.4

TOTAL NUMBER OF OBSERVATIONS: 290



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275251 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS (LST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66		
N			1.4	2.8								4.2	12.7
NNE		.4		1.8	.4							2.5	13.6
NE			1.8	.4								2.1	10.0
NNE			1.1	.4								1.4	9.0
E			1.1	.7								1.8	11.6
ESE			1.4	1.4								2.8	10.5
SE		.4	1.4	2.8	.7		.4					5.6	13.7
SSE		.7	1.4	6.7	1.4	.7						17.9	13.9
S	.4	.4	3.9	9.2	2.8	1.1	.7					18.3	14.0
SSW		.7	2.1	3.9		.4						7.0	12.5
SW		.4	1.1	4.2	.4	.4						6.3	13.3
WSW		.4	2.1	4.9								7.4	11.7
W		2.1	1.8	5.3	.7							9.9	11.4
WNW		.4	1.4	2.5								4.2	10.8
W		.4	1.1	1.8	.4	.4						3.9	12.7
WNW			.7	2.3	.7							4.2	13.7
VARIABLE													
CALM	////////////////////////////////////											7.4	////
TOTALS	.4	6.7	23.6	51.4	7.4	2.9	1.1					100.0	11.8

TOTAL NUMBER OF OBSERVATIONS: 254



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS: 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-24	25-33	34-40	41-47	48-55	GE 56		
N		.7	1.4	2.1	.3						4.5	11.6
NNE			1.0	1.4	.3						2.8	13.1
NE			.3	2.4	.3						3.1	12.6
ENE		.7	.7	.3							1.7	9.2
E		.7	.3	1.4	.3						2.4	12.1
ESE			.7	1.7			.3				2.8	15.1
SE	.7	.3	.3	1.0	1.0						3.1	12.1
SSE			.7	5.9	2.4	.7					9.7	15.7
S		.3	2.4	9.3	2.4	2.4	.7				17.6	15.6
SSW			1.0	3.8	.3	.3					5.5	13.3
SW		.7	1.7	5.9							8.3	11.9
WSW		.7	1.7	4.8	2.1						9.3	13.5
W		1.4	1.7	4.8	.3						8.2	11.8
WNW		.7	1.0	3.5	.3						5.5	12.1
NW		.7		2.4	1.0						4.2	14.3
NNW			.3	2.1	.3						2.8	14.4
VARIABLE												
CALM	////////////////////										9.7	////
TOTALS	.3	5.9	15.6	57.3	11.4	3.9	.7	.3			100.0	12.4

TOTAL NUMBER OF OBSERVATIONS: 289



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		1.4	1.4	4.4	.3							7.4	11.1
NNE		.3	.7	1.7	.3							3.0	13.0
NL			.3	1.4								1.7	12.0
NNE		.7		1.0								1.4	11.0
E		.7	.7	1.7								2.7	11.5
ESE		.7	.7	.3								1.4	9.0
SE		.7	.7	2.7	.7							4.4	12.8
SSE		.7	1.4	6.4	2.0	.7	.3					11.5	14.6
S			2.7	8.4	3.4	1.7	.3					16.6	15.4
SSW		.7	2.7	3.4		.3						6.8	12.0
SW		.7	1.4	5.7								7.4	12.2
WSW		1.7	1.7	4.4	.7							7.8	11.8
W		1.7	2.0	5.4	1.0							9.5	12.3
WNW			.7	3.4	.3							4.4	14.2
W			.7	1.4	.7							2.7	13.5
NNW			.7	1.0	.3	.7		.3				3.0	18.0
VARIABLE													
CALM	////////////////////											8.4	////
TOTALS		6.4	18.2	52.7	9.8	3.4	.7	.3				100.0	12.1

TOTAL NUMBER OF OBSERVATIONS: 296



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS (LST): 1800-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N			2.7	2.4	.7						5.8	11.6
NNE			.7	1.7							2.4	12.9
NE		.7	.3	1.0							2.1	9.3
ENE		.3	.7	.7							1.7	10.4
E		.7	.7	.7	.3						2.4	10.7
ESE			1.7	2.1							3.8	10.5
SE			2.1	1.7	1.0						4.8	13.2
SSE			2.1	5.2	2.1	1.7					11.3	15.6
S		.3	2.4	7.0	3.4	.3	.3				14.0	14.4
SSW		1.0	2.1	3.1	.3						6.5	11.1
SW		1.4	.7	4.8			.3				7.2	12.2
WSW		.3	1.7	4.5	1.0	.3					7.9	13.1
W		1.7	2.1	6.9							10.7	11.5
WNW		.7	1.4	1.7							3.4	11.2
W		.7		2.1		.3					3.4	12.3
NNW			.7	1.4	.3	.7		.3			3.4	17.4
VARIABLE												
CALM	////////////////////										8.6	////
TOTALS		7.9	22.0	47.8	9.3	3.4	.7	.3			100.0	11.9

TOTAL NUMBER OF OBSERVATIONS: 291



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AID WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS (LST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N			1.3	2.7	.3		.3					4.7	13.4
NNE		1.3	1.3	1.7	.7							5.1	10.8
NE		.7	1.3	.7								2.7	9.5
NNE			.7	.7								1.3	10.5
E		1.0	.3	1.0								2.4	8.9
ESE			.7	.7								1.3	11.0
SE		.7	1.7	2.4	1.0	.3						6.1	13.0
SSE		.7	2.7	7.1	1.3	.7						12.5	13.5
S		.7	2.0	7.1	2.7	2.7						14.8	15.4
SSW			2.4	3.4	.7	.3						6.7	13.0
SW		2.0	1.7	4.0		.3						8.1	11.1
WSW		.7	1.7	2.7								5.1	11.1
W		.3	3.0	7.4	.3	.3						11.4	13.1
WNW		.7	2.0	1.3	.3							4.4	10.5
NW			1.0	1.0	.7	.3						3.0	14.6
NNW		.7	.3	2.4		.3						3.4	12.1
VARIABLE													
CALM	////////////////////											7.1	////
TOTALS		2.0	24.2	46.1	2.1	5.4	.3					100.0	11.8

TOTAL NUMBER OF OBSERVATIONS: 277



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 273957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.6	1.6	2.8	.4		.0				5.5	11.8
NNW		.4	.9	1.6	.2	.0					3.1	11.8
NW		.3	.9	1.1	.0						2.2	10.7
NNNE		.3	.9	.7							1.9	9.9
N		.4	.6	1.0	.1						2.2	10.9
NNE		.0	1.2	.9				.0			2.4	10.6
SE	.0	.5	1.1	2.1	.9	.1	.0				4.9	13.0
SSE		.5	1.6	5.0	2.1	.3	.1				11.0	14.4
S	.1	.2	2.7	8.1	3.0	1.5	.3				16.0	14.9
SSW		.5	2.1	3.2	.5	.2	.0				6.6	12.3
SW		.9	1.6	4.2	.2	.1	.3				7.1	12.0
WSW		.7	1.7	4.2	.6	.1					7.3	12.2
W		1.7	2.2	5.5	.6	.1	.0				9.5	12.3
WNW		.6	1.5	2.5	.3	.0					5.1	11.8
NW		.7	.6	1.5	.4	.1					3.0	12.9
NNW		.7	.7	1.6	.3	.3	.1	.1			3.4	14.3
VARIABLE												
CALM	////////////////////										8.8	////
TOTALS	.1	7.7	22.0	47.3	9.7	3.6	.7	.1			100.0	11.7

TOTAL NUMBER OF OBSERVATIONS: 2326



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/DAL

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS (LST): 0000-0200

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66		
N		1.7	1.0	0.0								4.7	10.5
NNE		1.7	1.3	1.0								4.7	10.0
NE				1.7	1.3							4.7	15.0
NNE			1.3	1.7								4.7	17.0
E		1.7	1.7	1.3								4.7	5.5
ESE		1.7	1.7	2.7	1.3							6.7	11.7
SE		1.0	2.7	2.3	1.3	1.3						7.7	12.3
SSE			1.7	4.7	1.3	1.7	1.7	1.3				11.4	17.4
S			2.7	7.7	1.7	1.7	1.7					13.7	15.0
SSW		1.7	1.7	2.3	1.3	1.3						6.7	13.1
SW		1.7	1.0	3.3	1.0							6.7	12.1
WSW		1.0	1.3	3.3	1.7	1.3						6.7	12.5
W			2.7	3.0								5.7	11.1
WNW		1.0	1.0	3.7		1.3						6.7	12.2
W		1.3	1.3	2.0	1.3	1.3						5.4	12.9
WNW		1.3	1.3	1.0								2.7	10.8
VARIABLE													
CALM	////////////////////											10.7	////
TOTALS		7.7	21.4	45.8	9.4	4.3	1.3	1.3				100.0	11.7

TOTAL NUMBER OF OBSERVATIONS: 749



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27591 STATION NAME: KAZAN U.S.R.

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 0300-0500

DIRECTION (FOR GUSTS)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N			1.7	0.6		.3						4.6	12.5
NNE		.7	.7	1.7	.3							3.0	11.9
NL			.3	.3								.7	11.0
ENE			.7	.7								1.7	10.0
E		1.7	.7	.7								2.0	9.3
ESE		.7	1.7	1.3	1.0							6.3	12.6
SE		.7	1.7	4.3	.7	.2	.3					7.6	14.0
SSE		.7	1.7	4.6	1.3	1.7	.3	.7				12.3	16.0
S		.7	1.0	7.6	1.7	.7	.3	.3				12.3	15.5
SSW		.7	2.3	1.3								6.3	12.0
SW		.7	.7	5.0	1.3		.3					6.0	14.2
WSW		1.7	1.7	1.7	.3							6.3	11.2
W		1.7	2.3	2.6								7.7	17.6
WNW			1.3	3.3		.3						5.0	13.5
W		.7		0.3	1.0							4.0	13.6
NNW		.7	1.3	0.0								1.6	11.8
VARIABLE													
CALM	////////////////////											12.6	////
TOTALS		7.7	19.9	47.0	7.6	3.3	1.3	.7				100.0	11.6

TOTAL NUMBER OF OBSERVATIONS: 702



GLOBAL CLIMATOLOGY BRANCH  
USAFSTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275250 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(EST): 0600-0600

DIRECTION (00-359)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N			1.0	1.4								2.4	10.6
NNE		1.7	.7	1.0	.7							3.4	11.9
ENE		.7	.7	0.0								3.0	11.8
E		.7	.7	1.0								2.0	10.3
ESE		1.0	1.4	0.0								4.4	10.9
SE		.7	2.4	5.4	1.4	.3						10.1	12.9
SSE			2.4	5.7	2.4	.3	.3					11.1	14.3
S		.7	1.7	4.4	2.4	.3		.3				9.5	15.3
SSW			1.4	4.1		1.7						6.4	14.4
SW		1.0	.3	1.0	1.0							5.4	13.7
WSW		1.7	1.0	5.1								7.1	11.7
W		.7	4.4	7.0	.3							8.4	10.7
WNW		1.7	1.4	2.4	.7							5.4	12.0
W		1.7	2.0	0.7	.7	.3						6.4	12.1
WNW		.7	.3	1.7	.3							2.7	13.1
VARIABLE													
CALM	////////////////////											11.9	////
TOTALS		7.1	21.3	44.5	9.8	2.4	.3	.3				100.0	11.3

TOTAL NUMBER OF OBSERVATIONS: 276



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27090 STATION NAME: KAZAN, USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LEST): 0900-1100

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66		
N		1.1	.9	1.1								2.6	9.4
NNE		1.4	1.1	1.8	.7							5.0	11.1
NLE			.7	.7								1.4	11.0
ENE													
E		.4	1.1	1.1								2.6	10.3
ESE		.4	2.8	2.2	.4							6.7	11.1
SE		1.1	1.4	2.8	.4							5.7	10.9
SESE		.7	1.1	6.5	2.1	1.4		.4				14.2	15.7
S		.4	2.1	7.8	1.4	.7						13.5	13.0
SSA		.4	1.4	2.1	.7	.4						5.0	13.5
SA		.4	.7	2.1	.7		.4					4.3	13.9
SSW		1.4	1.4	3.5	.4		.4					7.1	10.1
S		.7	2.5	5.3	.7							9.2	11.3
WSW		1.1	1.4	1.8	.7							5.0	10.9
WS			1.4	2.8	.4							4.6	10.7
WSW		.4	.4	1.8	.4							2.8	10.6
VARIABLE													
CALM	////////////////////											10.6	////
TOTALS		10.6	19.9	46.5	8.9	2.5	.7	.4				100.0	11.2

TOTAL NUMBER OF OBSERVATIONS: 210



GLOBAL CLIMATOLOGY BRANCH  
USAF/CLAC  
AIR WEATHER SERVICE/MSC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275757 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 1200-1400

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56	
N		1.7	.7	.3							2.0	7.7
NNE		.7	1.3	1.3	.3	.3					3.7	12.4
NE		.7	1.3	1.0							2.7	10.8
NNE		.7									.7	4.0
E		.7	.3	.7							1.3	10.5
ESE		.7	1.0	1.7	.3						3.4	11.7
SE		.7	1.7	3.4	1.0	.3					7.0	13.0
SSE			1.0	2.4	2.3	1.7					12.4	15.3
S		.7	2.0	6.0	1.0	1.0	.3				10.7	14.3
SSW		.7	2.7	3.4	1.3	.3					8.4	13.1
SW		1.7	1.3	4.7	1.3	.3					8.7	13.0
WSW		.7	1.3	3.4		.3					5.7	12.1
W			2.3	5.4	1.0		.3				9.1	13.3
WNW		.7	1.7	2.7	.7						5.4	11.8
WW		1.0	1.0	2.3	.3						4.7	10.6
NNW		.7	.7	2.3	.7						4.0	12.3
VARIABLE												
CALM	////////////////////										10.1	////
TOTALS		7.7	20.5	47.7	10.4	3.7	.7				100.0	11.6

TOTAL NUMBER OF OBSERVATIONS: 248



GLOBAL CLIMATOLOGY BRANCH  
USAF/CIAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(UST): 1500-1700

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N		.7	.3	2.6	.7							3.3	12.8
NNE		.3	.7	.7	.7							2.3	12.3
N		.7	1.0	.7								2.3	9.7
E		1.0										1.0	6.0
E		.7	.3	2.0								2.6	12.5
ESE		.7	1.6	2.0								3.9	10.7
SE		.7	.7	3.3	.3							4.6	12.8
SSE		.7	2.7	6.6	2.0	1.6						12.9	15.3
S		.7	1.3	7.9	1.3	1.0	.3					12.1	14.4
SSW		.7	.3	6.6	1.0	.3						8.9	14.1
SW		.7	1.3	3.3	.3			.3				5.9	13.2
WSW		.7	2.3	2.0								5.9	10.6
W		1.0	2.6	5.9	1.6							11.1	12.6
WNW		1.3	1.0	1.3								3.6	9.3
W		1.3	.7	3.0	.7							5.6	11.4
WNW		1.0	.3	1.0								2.3	10.0
VARIABLE													
CALM	////////////////////											11.8	////
TOTALS		10.5	16.7	48.9	8.5	3.0	.7	.3				100.0	11.3

TOTAL NUMBER OF OBSERVATIONS: 305



GLOBAL CLIMATOLOGY BRANCH  
USAFITAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 270900 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1800-2000

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-7	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	56-66		
N		.7	.3	2.0	.3		.3					3.7	13.1
NNE				1.0								1.0	13.3
NE		.7	.7	1.3								2.3	11.1
ENE		.7		.7								1.0	11.3
E		.7	1.0	.7								2.3	9.7
ESE		.3	1.0	2.3								3.7	11.8
SE		.7	2.3	5.6	.3	1.7	.3					10.3	13.6
SSE		.7	2.0	6.0	1.3	.3	.3					10.6	14.2
S			2.0	9.0	1.3	.7	.3	.3				12.6	15.4
SSW			3.3	4.0	.7							8.0	12.3
SW		1.7	1.3	3.7		.7	.3					6.7	12.6
WSW		.7	1.0	2.3	.7							4.7	12.3
W		1.3	2.3	6.0		.3						10.0	11.8
WNW		.7	1.0	1.3	.7							3.3	12.2
NW			1.7	2.3	.3							4.3	12.5
NNW		1.0	1.3	1.3								3.7	9.1
VARIABLE													
CALM	////////////////////											12.6	////
TOTALS		5.7	21.2	47.5	5.6	2.7	1.7	.3				103.0	11.3

TOTAL NUMBER OF OBSERVATIONS: 701



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 273950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 2100-2300

DIRECTION (DEGREES)	WIND SPEED IN KNOTS											TOTAL %	MEAN WIND
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56		
N			2.6	1.0	.3							3.9	10.9
NNE		.7	.3	2.0								3.0	10.9
NE			.3	1.6								2.0	13.3
NNE		.7	.3	.3								1.0	8.0
E			.3	.7	.3							1.3	12.8
ESE			3.3	2.3	.7							6.2	11.9
SE		.3	1.6	3.0		.3	.3					5.6	13.5
SSE		1.7	1.6	6.6	2.6	1.0	.7	.3				13.8	15.4
S		2.3	3.0	8.2	1.6	.7	.3					15.1	13.7
SSW	.3	.7	2.6	1.6	1.3	1.0						7.5	13.1
SW		.7	2.3	2.6								5.6	10.8
WSW		1.7	1.0	2.3	.3							4.6	11.4
W			2.3	4.9	.3							7.5	12.4
WNW		.7	1.3	2.3		.3						5.2	12.4
NW		.7	1.6	1.6								4.9	10.5
NNW		.7	1.0	.7								2.0	9.3
VARIABLE													
CALM	////////////////////											10.8	////
TOTALS	.7	7.7	25.6	47.6	7.5	3.7	1.7	.3				100.0	11.3

TOTAL NUMBER OF OBSERVATIONS: 335



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275200 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(EST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-7	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	GE 56	
N		.1	1.0	1.5	.2	.3	.0				3.4	11.3
NNE		.5	.8	1.3	.3	.7					3.0	11.6
NE		.2	.6	1.0	.0						1.9	11.5
ENE		.3	.2	.4							.8	9.9
E		.1	.5	.9	.0						1.2	10.6
ESE		.4	1.8	2.6	.3						5.1	11.6
SE		.7	1.8	3.8	.7	.3	.1				7.3	13.0
SSE		.4	1.6	6.9	1.9	1.1	.3	.2			12.4	15.5
S		.5	2.0	7.2	1.5	.9	.3	.1			12.4	14.5
SSE		.7	.4	2.0	3.4	.8	.4				7.0	13.2
SW		.9	1.1	3.1	.7	.1	.1	.7			6.1	12.9
SSW		.7	1.4	3.2	.3	.1	.7				6.0	11.7
W		.5	2.6	4.5	.5	.7	.7				8.5	11.8
WNW		.7	1.3	2.5	.3	.1					4.9	11.9
W		.6	1.2	2.6	.5	.1					5.0	12.0
WNW		.5	.5	1.5	.2						3.0	11.2
VARIABLE												
CALM	////////////////////										11.4	////
TOTALS		1.4	20.8	46.4	8.3	3.1	1.0	.3			100.0	11.4

TOTAL NUMBER OF OBSERVATIONS: 2368



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-87  
MONTH: ALL HOURS(IST): ALL

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			GE 56
N	.0	1.1	2.0	2.6	.4	.0	.0	.0				6.1	11.0
NNE		.7	1.3	1.5	.2	.0						3.7	10.8
NE	.0	.6	1.2	1.2	.1	.0	.0					3.2	10.3
ENE	.0	.4	1.2	1.0	.1	.0	.0					2.6	10.3
E		.7	1.6	1.4	.1	.0						3.8	10.3
ESE		.6	1.6	1.7	.1	.0	.0	.0				4.1	10.6
SE	.0	.7	2.0	2.7	.4	.1	.0					6.0	11.7
SSE	.0	.9	2.2	3.8	.7	.3	.1	.0	.0			7.9	12.6
S	.0	.9	2.4	4.6	.9	.3	.1	.0				9.3	12.6
SSW	.0	.6	1.6	2.4	.3	.1	.0	.0				5.1	11.8
SW	.0	.0	1.4	2.0	.2	.1	.0	.0				4.6	11.0
WSW		.9	1.5	2.4	.3	.1	.0	.0				5.1	11.4
W	.0	1.1	2.2	4.0	.4	.1	.0					7.8	11.6
WNW	.0	.7	1.5	2.5	.3	.1	.0					5.1	11.5
W		.7	1.5	2.2	.4	.1	.0	.0				4.8	11.5
NNW		.9	1.8	2.3	.3	.1	.0	.0				5.3	11.1
VARIABLE		.0										.0	6.0
CALM	////////////////////////////////////											15.5	////
TOTALS	.1	10.7	26.8	36.3	5.2	1.4	.3	.1	.0			100.0	9.7

TOTAL NUMBER OF OBSERVATIONS: 28373



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SURFACE WIND DIRECTION VERSUS WIND SPEED  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27995 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-87  
MONTH: ALL HOURS(LEST): ALL

CEILING: 200 TO 1400 FEET WITH VISIBILITIES 1/2 MILE OR MORE  
AND/OR  
CEILING: 200 FEET OR MORE WITH VISIBILITIES 1/2 TO 3-1/2 MILES

DIRECTION (DEGREES)	WIND SPEED IN KNOTS										TOTAL %	MEAN WIND
	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50		
N		.0	1.5	1.8	.4	.1	.0				4.6	11.3
NNE		.0	.9	1.4	.3	.0					3.1	11.7
NF	.1	.0	.8	1.5	.1	.0					2.9	11.4
NNE		.1	1.0	1.6	.1	.0					2.3	11.1
E		.0	1.1	1.6	.2	.0					3.4	11.2
ESE		.0	1.1	1.5	.1	.0	.0				3.3	11.1
SE	.1	.0	1.5	3.7	.5	.0	.0				6.4	12.8
SSE		.0	1.9	5.2	1.4	.5	.2	.0	.0		9.9	14.1
S	.1	.0	2.3	7.3	1.9	.7	.1	.0			13.3	13.7
SSW	.0	.0	1.6	3.2	.6	.0	.0	.0			6.1	12.7
SW	.1	.0	1.3	2.7	.3	.1	.0				5.0	11.7
WSW		.1	1.2	2.9	.3	.1	.0				5.3	11.9
W		1.1	2.1	4.0	.4	.1	.0				7.7	11.7
WNW		.0	1.7	2.0	.3	.1					4.7	11.5
W		.0	1.1	2.0	.3	.1					4.1	11.6
WNW		.0	1.6	1.7	.2	.1		.0			4.4	10.9
VARIABLE												
CALC	////////////////////										13.4	////
TOTALS	.1	3.9	22.8	43.7	7.4	2.4	.4	.1	.0		100.0	10.7

TOTAL NUMBER OF OBSERVATIONS: 7747



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## CEILING VERSUS VISIBILITY AND SKY COVER SUMMARIES

### CEILING VERSUS VISIBILITY SUMMARY

THIS SUMMARY IS A BIVARIATE FREQUENCY DISTRIBUTION BY CLASSES OF CEILING FROM "0" THROUGH EQUAL TO OR GREATER THAN 20,000 FEET AND AS A SEPARATE CLASS "NO CEILING", VERSUS VISIBILITY IN 16 CLASSES FROM ZERO THROUGH EQUAL TO OR GREATER THAN 10 MILES.

DATA DERIVED FROM HOURLY OBSERVATIONS.

FREQUENCY DISTRIBUTION PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

#### NOTES:

BEGINNING IN 1958, METAR STATIONS REPORTED VISIBILITIES TO 6 MILES AND GREATER THAN 6 MILES. THEREFORE THE COLUMN FOR VISIBILITIES EQUAL TO OR GREATER THAN 10 MILES APPEAR BLANK.

AS A RULE, AIRWAYS STATIONS NORMALLY REPORT VISIBILITIES TO 6 MILES AND 7 OR GREATER, HOWEVER SOME STATIONS REPORT HIGHER VALUES. THEREFORE, THE 10 MILE VISIBILITY COLUMN SOMETIMES CONTAIN SMALL PERCENTAGE VALUES. HOWEVER, THESE VALUES ARE OF LITTLE MEANING AND SHOULD BE DISREGARDED.

FOR METAR CIVILIAN STATIONS REPORTING "CAVOK", ALL CEILINGS ABOVE 5000 FEET WERE SUPPRESSED TO 5000 FEET. THEREFORE, NO PERCENT VALUES APPEAR ABOVE 5000 FEET.

### SKY COVER SUMMARY

PRESENTS PERCENTAGES OF SKY COVER IN EITHER 10THS OF COVERAGE OR "AIRWAYS CLASSIFICATIONS".

DATA SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

ALSO PRESENTED ARE MEAN SKY COVERS.

FOR AIRWAY STATIONS, THE CONVERSION FROM THE AIRWAYS DESIGNATIONS TO 10THS FOR PRESENTATION ARE:

CLEAR	-	0/10
SCATTERED	-	3/10
BROKEN	-	4/10
OVERCAST	-	10/10
OBSCURED	-	10/10



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VEHICLES VISIBILITY  
FROM HOURLY OBSERVATIONS

PL 7105 OF RECORD: 78-87

MOBILE: JAL. HOURS(LST): 0000-0200

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CEILING	VISIBILITY IN STATUTE MILES																	
	IN FEET	GE 1/8	GE 1/4	GE 3/8	GE 1/2	GE 3/4	GE 1	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/4	GE 2 1/2	GE 2 3/4	GE 3	GE 3 1/4	GE 3 1/2	GE 3 3/4
	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5
NO CEIL 1		17.6	17.6	17.6	18.6	20.6	20.6	20.9	22.6	22.6	22.9	22.9	22.9	22.9	23.3	23.3	23.3	23.3
GE 20700		18.6	18.6	18.6	19.6	21.6	21.6	22.0	23.0	23.0	23.0	23.0	23.0	23.0	23.6	23.6	23.6	23.6
GE 18700		18.6	18.6	18.6	19.6	21.6	21.6	22.0	23.0	23.0	23.0	23.0	23.0	23.0	23.6	23.6	23.6	23.6
GE 16700		18.6	18.6	18.6	19.6	21.6	21.6	22.0	23.0	23.0	23.0	23.0	23.0	23.0	23.6	23.6	23.6	23.6
GE 14700		18.6	18.6	18.6	19.6	21.6	21.6	22.0	23.0	23.0	23.0	23.0	23.0	23.0	23.6	23.6	23.6	23.6
GE 12700		18.6	18.6	18.6	19.6	21.6	21.6	22.0	23.0	23.0	23.0	23.0	23.0	23.0	23.6	23.6	23.6	23.6
GE 10700	29.1	29.1	29.1	32.4	35.1	35.1	37.5	39.5	39.9	40.5	41.2	41.2	42.2	42.2	42.2	42.2	42.2	42.2
GE 9700	29.1	29.1	29.1	32.4	35.1	35.1	37.5	39.5	39.9	40.5	41.2	41.2	42.2	42.2	42.2	42.2	42.2	42.2
GE 8700	29.1	29.1	29.1	32.4	35.1	35.1	37.5	39.5	39.9	40.5	41.2	41.2	42.2	42.2	42.2	42.2	42.2	42.2
GE 7700	29.1	29.1	29.1	32.4	35.1	35.1	37.5	39.5	39.9	40.5	41.2	41.2	42.2	42.2	42.2	42.2	42.2	42.2
GE 6700	29.1	29.1	29.1	32.4	35.1	35.1	37.5	39.5	39.9	40.5	41.2	41.2	42.2	42.2	42.2	42.2	42.2	42.2
GE 5700	29.7	29.7	29.7	33.1	35.5	35.8	38.2	40.2	40.5	41.2	41.9	41.9	42.9	42.9	42.9	42.9	42.9	42.9
GE 4700	30.4	30.4	30.4	33.8	36.5	36.5	38.9	40.9	41.2	41.9	42.6	42.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 3700	30.4	30.4	30.4	33.8	36.5	36.5	38.9	40.9	41.2	41.9	42.6	42.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 2700	30.4	30.4	30.4	33.8	36.5	36.5	38.9	40.9	41.2	41.9	42.6	42.6	43.6	43.6	43.6	43.6	43.6	43.6
GE 1700	34.1	34.1	34.1	37.8	41.2	41.2	44.3	46.6	47.0	47.6	48.3	48.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 700	37.2	37.2	37.2	41.9	45.3	45.3	48.3	51.0	51.4	52.0	52.7	52.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 600	37.2	37.2	37.2	41.9	45.3	45.3	48.3	51.0	51.4	52.0	52.7	52.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 500	40.5	40.5	40.5	45.6	50.0	50.0	53.0	56.4	56.8	57.4	58.1	58.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 400	43.2	43.2	43.2	47.7	54.7	54.7	58.8	62.5	63.2	63.9	64.5	64.5	65.5	65.5	65.5	65.5	65.5	65.5
GE 300	44.6	44.6	44.6	51.7	57.4	57.8	61.8	65.9	66.6	67.2	67.9	67.9	68.9	68.9	68.9	68.9	68.9	68.9
GE 200	45.3	45.3	45.3	53.4	59.1	59.5	63.5	67.6	68.2	68.9	69.6	69.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 100	48.0	48.0	48.0	55.4	61.5	61.8	66.6	70.7	71.6	72.3	73.1	73.1	74.0	74.0	74.0	74.0	74.0	74.0
GE 70	50.0	50.0	50.0	58.1	64.9	65.5	70.3	74.4	75.3	75.9	76.7	76.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 60	52.0	52.0	52.0	62.5	70.6	71.6	76.7	81.8	83.4	84.9	86.1	86.1	87.5	87.5	87.5	87.5	87.5	87.5
GE 50	53.4	53.4	53.4	62.5	71.9	72.0	77.4	83.1	85.1	86.5	87.8	87.8	89.2	89.2	89.2	89.2	89.2	89.2
GE 40	54.1	54.1	54.1	63.5	72.0	72.0	78.7	86.5	88.9	90.2	91.6	91.6	93.2	93.2	93.2	93.2	93.2	93.2
GE 30	54.1	54.1	54.1	63.5	72.0	72.0	79.4	87.5	89.9	91.6	92.9	92.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 20	54.1	54.1	54.1	63.5	72.0	72.0	79.4	88.2	90.9	92.6	94.3	94.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 10	54.1	54.1	54.1	63.5	72.0	72.0	79.4	88.0	90.9	92.5	94.3	94.3	95.3	95.3	95.3	95.3	95.3	95.3
GE 0	54.1	54.1	54.1	63.5	72.0	72.0	79.4	88.2	90.9	92.5	94.3	94.3	95.3	95.3	95.3	95.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 296



GLOBAL CLIMATOLOGY BRANCH  
USAF/CLAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27565 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS (LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 1 1/2	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
NO CEIL		19.1	19.1	19.4	19.4	20.1	20.1	20.4	21.1	21.4	21.7	21.7	22.4	22.4	22.4	22.7
GE 20000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 18000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 16000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 14000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 12000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 10000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 9000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 8000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 7000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 6000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 5000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 4000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 3000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 2000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 1000	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 500	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 200	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 100	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 50	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 20	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 10	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 5	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 2	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 1	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7
GE 0	20.1	20.1	20.4	20.4	21.1	21.1	21.4	22.1	22.4	22.7	22.7	23.4	23.4	23.4	23.7	23.7

TOTAL NUMBER OF OBSERVATIONS: 279



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS (LST): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	1	GE 1/2	GE 1/4	GE 1/8	GE 1/16	GE 1/32	GE 1/64	GE 1/128	GE 1/256	GE 1/512	GE 1/1024	GE 1/2048	GE 1/4096	GE 1/8192	GE 1/16384	GE 1/32768	GE 1/65536
NO CEIL	1		16.4	16.4	16.4	17.1	18.1	18.1	19.1	19.8	20.5	21.2	21.2	21.2	21.5	21.5	21.8
GE 20000		17.4	17.4	17.4	18.1	19.1	19.1	20.1	20.4	21.5	22.2	22.2	22.2	22.5	22.5	22.5	22.9
GE 18000		17.4	17.4	17.4	18.1	19.1	19.1	20.1	20.8	21.5	22.2	22.2	22.2	22.5	22.5	22.5	22.9
GE 16000		17.4	17.4	17.4	18.1	19.1	19.1	20.1	20.8	21.5	22.2	22.2	22.2	22.5	22.5	22.5	22.9
GE 14000		17.4	17.4	17.4	18.1	19.1	19.1	20.1	20.8	21.5	22.2	22.2	22.2	22.5	22.5	22.5	22.9
GE 12000		17.4	17.4	17.4	18.1	19.1	19.1	20.1	20.8	21.5	22.2	22.2	22.2	22.5	22.5	22.5	22.9
GE 10000		25.9	25.9	25.9	28.3	30.0	30.4	32.1	33.8	35.2	36.9	36.9	36.9	37.5	37.5	37.5	37.9
GE 9000		25.9	25.9	25.9	28.3	30.0	30.4	32.1	33.8	35.2	36.9	36.9	36.9	37.5	37.5	37.5	37.9
GE 8000		25.9	25.9	25.9	28.3	30.0	30.4	32.1	33.8	35.2	36.9	36.9	36.9	37.5	37.5	37.5	37.9
GE 7000		25.9	25.9	25.9	28.3	30.0	30.4	32.1	33.8	35.2	36.9	36.9	36.9	37.5	37.5	37.5	37.9
GE 6000		25.9	25.9	25.9	28.3	30.0	30.4	32.1	33.8	35.2	36.9	36.9	36.9	37.5	37.5	37.5	37.9
GE 5000		25.9	25.9	25.9	28.3	30.0	30.4	32.1	33.8	35.2	36.9	36.9	36.9	37.5	37.5	37.5	37.9
GE 4500		25.9	25.9	25.9	28.3	30.0	30.4	32.1	33.8	35.2	36.9	36.9	36.9	37.5	37.5	37.5	37.9
GE 4000		26.6	26.6	26.6	29.0	30.7	31.1	32.8	34.5	35.8	37.5	37.5	37.5	38.2	38.2	38.2	38.6
GE 3500		27.3	27.3	27.3	29.7	32.1	32.4	34.5	36.2	37.5	39.2	39.2	39.2	39.9	39.9	39.9	40.3
GE 3000		27.3	27.3	27.3	29.7	32.1	32.4	34.5	36.2	37.5	39.2	39.2	39.2	39.9	39.9	39.9	40.3
GE 2500		30.4	30.4	30.4	32.4	34.8	35.2	37.2	38.9	40.3	42.7	42.7	42.7	42.7	42.7	42.7	43.0
GE 2000		30.4	30.4	30.4	32.4	34.8	35.2	37.2	38.9	40.3	42.7	42.7	42.7	42.7	42.7	42.7	43.0
GE 1800		31.7	31.7	31.7	34.1	36.5	36.9	38.9	41.2	43.3	45.7	45.7	45.7	45.7	45.7	45.7	46.1
GE 1600		34.5	34.5	34.5	36.9	39.9	40.3	42.3	44.7	46.8	49.5	49.5	49.5	49.5	49.5	49.5	49.5
GE 1400		41.6	41.6	41.6	45.4	49.5	50.2	52.2	54.6	57.0	59.7	59.7	59.7	59.7	59.7	59.7	59.7
GE 1200		45.4	45.4	45.4	50.2	54.9	56.0	58.7	61.3	64.2	66.9	66.9	66.9	66.9	66.9	66.9	66.9
GE 1000		47.1	47.1	47.1	52.6	57.3	58.4	61.1	64.2	66.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 900		47.1	47.1	47.1	52.6	57.3	58.4	61.1	64.2	66.6	69.7	69.7	69.7	69.7	69.7	69.7	69.7
GE 800		48.1	48.1	48.1	53.9	59.4	60.4	63.5	67.2	70.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
GE 700		52.2	52.2	52.2	60.1	66.2	67.2	71.7	77.1	82.2	87.5	87.5	87.5	87.5	87.5	87.5	87.5
GE 600		52.9	52.9	52.9	61.1	67.2	68.3	73.0	79.2	84.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
GE 500		53.6	53.6	53.6	62.1	68.3	69.3	74.7	82.3	88.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7
GE 400		53.9	53.9	53.9	62.5	68.6	69.6	75.8	84.1	91.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 300		53.9	53.9	53.9	62.5	68.6	69.6	75.8	84.1	91.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 200		53.9	53.9	53.9	62.5	68.6	69.6	75.8	84.1	91.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 100		53.9	53.9	53.9	62.5	68.6	69.6	75.8	84.1	91.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
GE 0		53.9	53.9	53.9	62.5	68.6	69.6	75.8	84.1	91.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS: 293



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27505 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS(IST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 1 1/2	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
NO CEIL																
GE 2000																
GE 1500																
GE 1000																
GE 800																
GE 600																
GE 400																
GE 300																
GE 200																
GE 150																
GE 100																
GE 50																
GE 0																

TOTAL NUMBER OF OBSERVATIONS: 271



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VEHICLES VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 76-87  
MONTH: JAN. HOURS (LST): 1200-1400

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 273



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27593 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS (LST): 1500-1700

CEILING		VISIBILITY IN STATUTE MILES																
IN FEET	1	GE 1/2	GE 0	GE 1/4	GE 3/4	GE 2 1/2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0	
NO CEIL	1	.7	22.2	22.9	22.9	27.9	25.9	25.9	26.3	27.6	27.9	27.9	27.9	28.3	28.3	28.3	28.3	
GE 1000	.7	24.9	25.6	25.6	26.9	30.3	30.3	30.6	32.0	32.3	32.3	32.3	32.3	32.7	32.7	32.7	32.7	
GE 1600	.7	24.9	25.6	25.6	26.9	30.3	30.3	30.6	32.0	32.3	32.3	32.3	32.3	32.7	32.7	32.7	32.7	
GE 1400	.7	24.9	25.6	25.6	26.9	30.3	30.3	30.6	32.0	32.3	32.3	32.3	32.3	32.7	32.7	32.7	32.7	
GE 1200	.7	24.9	25.6	25.6	26.9	30.3	30.3	30.6	32.0	32.3	32.3	32.3	32.3	32.7	32.7	32.7	32.7	
GE 1000	.7	37.4	38.0	38.0	41.4	47.8	47.8	49.2	51.9	53.2	53.2	53.5	53.5	54.2	54.2	54.2	54.5	
GE 900	.7	37.4	38.0	38.0	41.4	47.8	47.8	49.2	51.9	53.2	53.2	53.5	53.5	54.2	54.2	54.2	54.5	
GE 800	.7	37.4	38.0	38.0	41.4	47.8	47.8	49.2	51.9	53.2	53.2	53.5	53.5	54.2	54.2	54.2	54.5	
GE 700	.7	37.4	38.0	38.0	41.4	47.8	47.8	49.2	51.9	53.2	53.2	53.5	53.5	54.2	54.2	54.2	54.5	
GE 600	.7	37.4	38.0	38.0	41.4	47.8	47.8	49.2	51.9	53.2	53.2	53.5	53.5	54.2	54.2	54.2	54.5	
GE 500	.7	37.4	38.0	38.0	41.4	47.8	47.8	49.2	51.9	53.2	53.2	53.5	53.5	54.2	54.2	54.2	54.5	
GE 450	.7	37.7	38.4	38.4	41.8	48.1	48.1	49.5	52.2	53.5	53.5	53.9	53.9	54.5	54.5	54.5	54.9	
GE 400	.7	37.7	38.4	38.4	41.8	48.1	48.1	49.5	52.2	53.5	53.5	53.9	53.9	54.5	54.5	54.5	54.9	
GE 350	.7	37.7	38.4	38.4	41.8	48.1	48.1	49.5	52.2	53.5	53.5	53.9	53.9	54.5	54.5	54.5	54.9	
GE 300	.7	38.0	38.7	38.7	42.4	48.8	48.8	50.2	52.9	54.2	54.2	54.5	54.5	55.2	55.2	55.2	55.6	
GE 250	.7	38.7	40.1	40.1	43.8	50.8	50.8	52.2	54.9	56.2	56.2	56.6	56.6	57.2	57.2	57.2	57.6	
GE 200	.7	40.7	42.4	42.4	46.1	53.5	53.5	54.9	57.6	58.9	58.9	59.3	59.3	59.9	60.3	60.3	60.6	
GE 180	.7	41.4	43.1	43.1	46.8	54.5	54.5	55.9	58.6	59.9	59.9	60.3	60.3	60.9	61.3	61.3	61.6	
GE 160	.7	42.1	43.8	43.8	47.2	57.2	57.2	59.3	62.0	63.3	63.3	63.6	63.6	64.3	64.6	64.6	65.0	
GE 140	.7	46.0	48.5	48.5	53.2	61.6	61.6	64.0	67.3	68.7	68.7	69.3	69.3	69.7	70.0	70.0	70.4	
GE 120	.7	49.2	51.6	51.6	55.9	65.3	65.3	67.7	71.4	73.1	73.1	73.7	73.7	74.4	74.7	74.7	75.1	
GE 100	.7	49.5	51.6	51.6	54.2	65.7	65.7	68.4	72.7	74.4	74.4	75.1	75.1	76.4	76.4	76.4	76.8	
GE 80	.7	51.6	53.5	53.5	54.2	65.7	65.7	71.7	76.4	78.1	78.1	78.8	78.8	79.8	80.1	80.1	80.5	
GE 70	.7	52.2	54.2	54.2	56.9	69.4	69.4	72.4	77.8	79.8	79.8	80.5	80.5	81.5	81.8	81.8	82.2	
GE 60	.7	52.2	54.2	54.2	57.3	70.4	70.4	74.7	82.2	84.5	84.5	85.5	85.5	86.9	87.2	87.2	87.5	
GE 50	.7	52.2	54.2	54.2	57.3	70.4	70.4	75.4	83.8	86.2	86.2	87.0	87.0	87.6	88.9	88.9	89.9	
GE 40	.7	52.9	54.9	54.9	57.9	71.0	71.0	76.8	85.5	87.9	87.9	88.6	88.6	92.3	92.9	92.9	93.3	
GE 30	.7	52.9	54.9	54.9	57.9	71.7	71.7	77.8	87.5	89.9	89.9	91.5	91.5	94.3	95.6	95.6	96.3	
GE 20	.7	52.9	54.9	54.9	57.9	71.7	71.7	78.1	87.9	90.9	90.9	92.6	92.6	93.9	96.7	98.0	98.7	
GE 10	.7	52.9	54.9	54.9	57.9	71.7	71.7	78.1	87.9	90.9	90.9	92.6	92.6	93.9	96.7	98.3	99.0	
GE 0	.7	52.9	54.9	54.9	57.9	71.7	71.7	78.1	87.9	90.9	90.9	92.6	92.6	93.9	96.7	98.3	100.0	

TOTAL NUMBER OF OBSERVATIONS: 227



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: JAN HOURS (LST): 1900-2000

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 289



GLOBAL CLIMATOLOGY BRANCH  
USAF/CLAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275601 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87

MONTH: JAN HOURS(IST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	7	8	9	10	10
NO CEIL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 20000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 18000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 16000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 14000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 12000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 10000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 9000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 8000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 7000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 6000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 5000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 4500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 4000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 3500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 3000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 2500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 2000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TOTAL NUMBER OF OBSERVATIONS: 700



PERCENTAGE FREQUENCY OF OCCURRENCE OF COILING VERSUS VIRUS VIRILITY  
FROM FOURTY OBSERVATIONS

FLIGHT OF RECORD: 78-87  
MONTH: JAN HOURS (LAST): ALL

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 2347



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275557 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 75-87  
MONTH: FEB HOURS (LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/2	3	4	5	6	7	8	9	10	12
NO CEIL	1	26.9	26.9	26.9	27.5	31.4	31.4	32.6	34.3	37.6	39.7	39.7	39.9	39.9	39.9	41.0
GE 2000]		29.8	29.8	29.8	31.7	33.6	33.6	35.1	36.5	39.9	40.7	41.0	41.7	42.1	42.1	43.2
GE 1800]		29.8	29.8	29.8	31.7	33.6	33.6	35.1	36.5	39.9	40.7	41.0	41.7	42.1	42.1	43.2
GE 1600]		29.8	29.8	29.8	31.7	33.6	33.6	35.1	36.5	39.9	40.7	41.0	41.7	42.1	42.1	43.2
GE 1400]		29.8	29.8	29.8	31.7	33.6	33.6	35.1	36.5	39.9	40.7	41.0	41.7	42.1	42.1	43.2
GE 1200]		29.8	29.8	29.8	31.7	33.6	33.6	35.1	36.5	39.9	40.7	41.0	41.7	42.1	42.1	43.2
GE 1000]		39.1	39.1	39.1	43.9	46.9	46.9	49.8	53.5	57.2	57.4	59.8	59.8	60.1	60.1	61.3
GE 900]		39.1	39.1	39.1	43.9	46.9	46.9	49.8	53.5	57.2	57.4	59.8	59.8	60.1	60.1	61.3
GE 800]		39.1	39.1	39.1	43.9	46.9	46.9	49.8	53.5	57.2	57.4	59.8	59.8	60.1	60.1	61.3
GE 700]		39.1	39.1	39.1	43.9	46.9	46.9	49.8	53.5	57.2	57.4	59.8	59.8	60.1	60.1	61.3
GE 600]		39.1	39.1	39.1	43.9	46.9	46.9	49.8	53.5	57.2	57.4	59.8	59.8	60.1	60.1	61.3
GE 500]		39.5	39.5	39.5	44.3	47.2	47.2	50.2	53.9	57.6	57.7	59.4	60.1	60.5	60.5	61.6
GE 450]		40.2	40.2	40.2	45.0	48.0	48.0	50.9	54.6	58.3	58.7	60.1	60.9	61.3	61.3	62.4
GE 400]		40.2	40.2	40.2	45.0	48.0	48.0	50.9	54.6	58.3	58.7	60.1	60.9	61.3	61.3	62.4
GE 350]		40.6	40.6	40.6	45.4	48.3	48.3	51.3	55.0	58.7	59.0	60.5	61.3	61.6	61.6	62.7
GE 300]		41.7	41.7	41.7	46.5	49.4	49.4	52.4	56.1	59.8	60.1	61.0	62.4	62.7	62.7	63.8
GE 250]		42.4	42.4	42.4	47.0	50.6	50.6	53.5	57.2	60.9	61.3	62.7	63.5	63.8	63.8	64.9
GE 200]		44.3	44.3	44.3	49.1	52.4	52.4	55.7	59.4	63.1	63.5	64.9	65.7	66.1	66.1	67.2
GE 150]		45.4	45.4	45.4	50.6	53.9	53.9	57.2	60.9	64.6	64.9	66.4	67.2	67.5	67.5	68.6
GE 100]		46.0	46.0	46.0	53.1	56.8	56.8	59.2	63.5	67.5	67.5	69.7	70.5	70.8	70.8	72.0
GE 100]		51.3	51.3	51.3	59.3	62.7	63.1	66.4	70.8	74.5	74.5	76.4	77.1	77.5	77.5	78.6
GE 100]		53.9	53.9	53.9	61.5	66.4	66.4	70.1	75.6	79.3	79.3	81.5	82.3	82.7	82.7	83.8
GE 900]		54.2	54.2	54.2	62.4	67.2	67.2	70.8	76.8	80.8	81.5	83.0	83.8	84.1	84.1	85.2
GE 800]		55.1	55.1	55.1	63.1	68.3	68.3	72.3	78.7	82.3	82.3	84.5	85.2	85.6	85.6	86.7
GE 700]		55.4	55.4	55.4	63.9	69.0	69.4	73.4	79.3	83.4	84.1	85.6	86.3	86.7	86.7	88.2
GE 600]		55.4	55.4	55.4	64.2	70.5	70.8	74.9	81.9	86.3	87.5	88.9	89.7	90.0	90.0	91.5
GE 500]		55.4	55.4	55.4	64.2	70.8	71.2	75.6	83.1	87.8	87.9	90.4	91.1	91.5	91.9	93.4
GE 400]		55.7	55.7	55.7	64.6	71.6	72.0	76.4	84.1	89.7	91.1	92.6	93.4	93.7	94.1	95.9
GE 300]		55.7	55.7	55.7	64.6	71.6	72.0	76.4	84.9	90.4	91.1	92.6	93.4	93.7	94.1	95.9
GE 200]		55.7	55.7	55.7	64.6	71.6	72.0	76.4	84.9	90.8	91.6	94.5	95.6	95.9	96.3	98.2
GE 100]		55.7	55.7	55.7	64.6	71.6	72.0	76.4	84.9	90.8	91.6	94.5	95.6	96.3	97.4	99.6
GE		55.7	55.7	55.7	64.6	71.6	72.0	76.4	84.9	90.8	91.6	94.5	95.6	96.3	97.4	100.0

TOTAL NUMBER OF OBSERVATIONS: 271



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 275757 STATION NAME: KAZAK, USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(UTC): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16	GE 17	GE 18
NO CLIL		22.2	27.2	22.2	25.4	27.2	27.2	28.6	32.2	34.8	35.9	35.9	36.2	36.6	37.0	39.1		
GE 1000		25.0	25.0	25.0	27.9	29.7	29.7	31.2	34.8	37.3	39.0	39.0	38.4	38.8	39.1	39.5	41.7	
GE 1200		25.0	25.0	25.0	27.9	29.7	29.7	31.2	34.8	37.3	39.0	39.0	38.4	38.8	39.1	39.5	41.7	
GE 1400		25.0	25.0	25.0	27.9	29.7	29.7	31.2	34.8	37.3	39.0	39.0	38.4	38.8	39.1	39.5	41.7	
GE 1600		25.0	25.0	25.0	27.9	29.7	29.7	31.2	34.8	37.3	39.0	39.0	38.4	38.8	39.1	39.5	41.7	
GE 1800		31.2	38.0	38.4	42.4	46.0	46.0	48.6	53.6	56.2	56.2	56.2	57.2	57.6	58.0	58.3	60.5	
GE 2000		38.0	38.0	38.4	42.4	46.0	46.0	48.6	53.6	56.2	56.2	56.2	57.2	57.6	58.0	58.3	60.5	
GE 2200		38.0	38.0	38.4	42.4	46.0	46.0	48.6	53.6	56.2	56.2	56.2	57.2	57.6	58.0	58.3	60.5	
GE 2400		38.0	38.0	38.4	42.4	46.0	46.0	48.6	53.6	56.2	56.2	56.2	57.2	57.6	58.0	58.3	60.5	
GE 2600		38.4	38.4	38.8	42.6	46.4	46.4	48.6	54.0	56.5	57.2	57.6	58.0	58.3	58.7	59.4	61.6	
GE 2800		38.4	38.4	38.8	42.6	46.4	46.4	48.6	54.0	56.5	57.2	57.6	58.0	58.3	58.7	59.4	61.6	
GE 3000		39.1	39.1	39.5	42.5	47.1	47.1	49.6	54.7	57.2	57.6	58.0	58.3	58.7	59.1	59.4	61.6	
GE 3200		39.1	39.1	39.5	42.5	47.1	47.1	49.6	54.7	57.2	57.6	58.0	58.3	58.7	59.1	59.4	61.6	
GE 3400		40.2	40.2	40.6	44.6	48.2	48.2	50.7	56.2	58.7	59.4	59.6	60.1	60.5	60.9	63.0		
GE 3600		41.2	41.2	41.7	45.7	49.0	49.0	50.2	54.0	60.5	61.0	61.6	62.7	62.3	62.7	64.9		
GE 3800		43.1	43.1	43.8	49.6	52.5	52.5	52.9	55.4	61.2	64.1	64.7	65.6	65.9	66.3	68.5		
GE 4000		44.2	44.2	44.6	49.3	53.3	53.6	56.2	60.3	65.2	65.4	66.3	66.7	67.0	67.4	69.6		
GE 4200		46.4	46.4	46.7	50.2	56.2	56.5	59.1	61.0	69.0	69.0	69.9	70.3	70.7	71.0	73.2		
GE 4400		49.7	49.7	49.0	55.4	59.4	59.8	63.4	70.7	74.3	75.4	75.7	76.1	76.4	76.8	79.0		
GE 4600		51.7	51.7	51.1	57.6	62.3	62.7	66.3	74.0	78.3	79.3	80.1	80.4	80.8	81.2	83.3		
GE 4800		51.4	51.4	51.6	58.3	63.0	63.4	67.0	75.0	79.0	80.1	80.6	81.2	81.5	81.9	84.1		
GE 5000		51.4	51.4	51.6	58.3	63.0	63.4	67.0	75.0	79.0	80.1	80.6	81.2	81.5	81.9	84.1		
GE 5200		51.4	51.4	51.6	58.3	63.0	63.4	67.0	75.0	79.0	80.1	80.6	81.2	81.5	81.9	84.1		
GE 5400		51.4	51.4	51.6	58.3	63.0	63.4	67.0	75.0	79.0	80.1	80.6	81.2	81.5	81.9	84.1		
GE 5600		52.2	52.2	52.5	60.1	65.2	65.6	70.7	81.5	85.9	87.0	88.4	88.8	89.5	89.9	92.0		
GE 5800		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 6000		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 6200		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 6400		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 6600		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 6800		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 7000		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 7200		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 7400		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 7600		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 7800		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 8000		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 8200		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 8400		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 8600		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 8800		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 9000		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 9200		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 9400		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 9600		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 9800		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		
GE 10000		52.5	52.5	52.9	60.9	65.9	66.3	72.1	83.0	88.0	89.4	91.7	92.0	92.8	93.1	95.3		

TOTAL NUMBER OF OBSERVATIONS: 276



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(LST): 0600-0800

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 273



GLOBAL CLIMATOLOGY BRANCH  
USAF/FLTAG  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 270500 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87

MONTH: FEB HOURS(UT): 0900-1100

CEILING		VISIBILITY IN STATUTE MILES															
IN	FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NO CEIL		71.1	61.1	51.1	41.6	34.6	24.6	24.6	26.4	27.6	30.1	30.6	31.3	32.5	32.9	33.3	34.1
GE 20000		23.6	23.6	23.6	26.4	26.4	28.0	28.0	29.7	30.9	33.3	33.7	34.6	35.8	36.2	36.6	37.4
GE 18000		23.6	23.6	23.6	26.4	26.4	28.0	28.0	29.7	30.9	33.3	33.7	34.6	35.8	36.2	36.6	37.4
GE 16000		23.6	23.6	23.6	26.4	26.4	28.0	28.0	29.7	30.9	33.3	33.7	34.6	35.8	36.2	36.6	37.4
GE 14000		23.6	23.6	23.6	26.4	26.4	28.0	28.0	29.7	30.9	33.3	33.7	34.6	35.8	36.2	36.6	37.4
GE 12000		23.6	23.6	23.6	26.4	26.4	28.0	28.0	29.7	30.9	33.3	33.7	34.6	35.8	36.2	36.6	37.4
GE 10000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 9000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 8000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 7000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 6000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 5000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 4000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 3000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 2000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 1000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 0000		36.2	37.0	37.0	42.3	48.0	48.0	50.8	54.5	57.7	59.9	59.8	61.0	62.2	63.0	64.2	64.6
GE 20000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 18000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 16000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 14000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 12000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 10000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 9000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 8000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 7000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 6000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 5000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 4000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 3000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 2000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 1000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1
GE 0000	.4	71.4	61.2	51.2	43.5	36.4	27.4	27.4	33.3	37.3	40.6	41.3	42.6	43.8	45.0	45.9	47.1

TOTAL NUMBER OF OBSERVATIONS: 246



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27525 : SIMULATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS (LST): 1200-1400

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 372



GLOBAL CLIMATOLOGY BRANCH  
USAFETAL  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS (LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	9
NO CEIL																
GE 2000	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
GE 1800	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
GE 1600	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
GE 1400	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
GE 1200	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
GE 1000	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 900	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 800	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 700	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 600	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 500	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 400	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 300	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 200	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 100	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 0	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 1000	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 900	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 800	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 700	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 600	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 500	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 400	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 300	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 200	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 100	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 0	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 1000	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 900	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 800	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 700	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 600	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 500	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 400	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 300	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 200	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 100	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5
GE 0	52.2	53.7	53.7	55.9	60.3	60.3	61.8	67.3	68.0	68.4	69.1	69.1	69.5	69.5	69.5	69.5

TOTAL NUMBER OF OBSERVATIONS: 272



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS(IST): 1800-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 10	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	.4	70.5	30.9	30.9	33.8	37.1	37.1	39.2	41.4	41.4	42.1	42.4	42.4	42.4	42.4	42.4
GE 20000	.4	34.5	34.5	34.5	38.1	41.4	41.4	43.5	46.0	46.0	46.0	46.0	47.1	47.1	47.1	47.5
GE 15000	.4	34.5	34.5	34.5	38.1	41.4	41.4	43.5	46.0	46.0	46.0	46.0	47.1	47.1	47.1	47.5
GE 10000	.4	34.5	34.5	34.5	38.1	41.4	41.4	43.5	46.0	46.0	46.0	46.0	47.1	47.1	47.1	47.5
GE 7000	.4	34.5	34.5	34.5	38.1	41.4	41.4	43.5	46.0	46.0	46.0	46.0	47.1	47.1	47.1	47.5
GE 5000	.4	34.5	34.5	34.5	38.1	41.4	41.4	43.5	46.0	46.0	46.0	46.0	47.1	47.1	47.1	47.5
GE 4000	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 3000	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 2000	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 1800	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 1600	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 1400	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 1200	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 1000	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 900	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 800	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 700	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 600	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 500	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 450	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 400	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 350	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 300	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 250	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 200	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 180	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 160	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 140	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 120	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 100	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 90	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 80	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 70	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 60	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 50	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 45	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 40	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 35	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 30	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 25	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 20	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 18	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 16	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 14	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 12	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 10	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 9	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 8	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 7	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 6	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 5	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 4	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 3	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 2	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 1 1/2	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 1	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 3/4	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 5/8	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 1/2	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 5/16	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 1/4	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6
GE 0	.7	48.2	48.2	48.2	52.9	57.2	57.2	59.7	64.7	65.1	66.2	66.5	66.9	67.3	67.3	67.6

TOTAL NUMBER OF OBSERVATIONS: 778



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 235000 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB HOURS (LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL			31.9	31.9	31.9	34.4	37.7	37.7	39.9	43.5	43.6	44.6	44.6	44.6	45.3	45.7	46.0	
GE 20000			34.4	34.4	34.4	37.0	40.2	40.2	42.4	46.0	46.4	47.1	47.1	47.1	47.8	48.2	48.6	
GE 18000			34.4	34.4	34.4	37.0	40.2	40.2	42.4	46.0	46.4	47.1	47.1	47.1	47.8	48.2	48.6	
GE 16000			34.4	34.4	34.4	37.0	40.2	40.2	42.4	46.0	46.4	47.1	47.1	47.1	47.8	48.2	48.6	
GE 14000			34.4	34.4	34.4	37.0	40.2	40.2	42.4	46.0	46.4	47.1	47.1	47.1	47.8	48.2	48.6	
GE 12000			34.4	34.4	34.4	37.0	40.2	40.2	42.4	46.0	46.4	47.1	47.1	47.1	47.8	48.2	48.6	
GE 10000			44.9	44.9	44.9	49.6	54.0	54.0	56.9	63.0	63.4	64.1	64.1	64.5	65.6	65.9	66.3	
GE 9000			44.9	44.9	44.9	49.6	54.0	54.0	56.9	63.0	63.4	64.1	64.1	64.5	65.6	65.9	66.3	
GE 8000			44.9	44.9	44.9	49.6	54.0	54.0	56.9	63.0	63.4	64.1	64.1	64.5	65.6	65.9	66.3	
GE 7000			44.9	44.9	44.9	49.6	54.0	54.0	56.9	63.0	63.4	64.1	64.1	64.5	65.6	65.9	66.3	
GE 6000			45.3	45.3	45.3	52.0	54.3	54.3	57.2	63.4	63.5	64.5	64.5	64.5	65.9	66.3	66.7	
GE 5000			46.4	46.4	46.4	51.1	55.4	55.4	58.3	64.5	64.9	65.6	65.6	65.9	67.0	67.4	67.8	
GE 4000			46.7	46.7	46.7	51.4	55.8	55.8	58.7	64.9	65.2	65.9	65.9	66.3	67.4	67.8	68.1	
GE 3000			47.8	47.8	47.8	52.9	57.2	57.2	60.1	66.3	66.7	67.4	67.4	67.8	68.8	69.2	69.6	
GE 2000			47.8	47.8	47.8	53.6	58.0	58.0	60.9	67.0	67.4	68.1	68.1	68.5	69.6	69.9	70.3	
GE 1000			50.0	50.0	50.0	55.4	60.1	60.1	63.0	69.6	69.9	70.7	70.7	71.0	72.1	72.5	72.8	
GE 20000			51.1	51.1	51.1	57.2	61.6	61.6	64.5	71.4	71.7	72.5	72.5	72.9	73.9	74.3	74.6	
GE 18000			52.0	52.0	52.0	58.3	62.7	62.7	65.6	72.5	72.8	73.5	73.5	73.9	75.0	75.4	75.7	
GE 16000			52.0	52.0	52.0	58.7	63.0	63.0	66.3	73.6	73.9	74.5	74.5	74.6	76.1	76.4	76.8	
GE 14000			56.2	56.2	56.2	63.0	67.8	67.8	71.4	79.0	79.3	80.1	80.1	80.4	81.5	81.9	82.2	
GE 12000			59.1	59.1	59.1	66.3	71.0	71.0	75.0	83.7	84.1	84.9	84.9	85.1	86.2	86.6	87.0	
GE 10000			59.6	59.6	59.6	67.4	72.1	72.1	76.1	85.5	85.9	86.6	86.6	87.0	88.0	88.4	89.1	
GE 9000			59.6	59.6	59.6	68.5	73.2	73.2	77.5	87.3	87.7	88.4	88.4	88.8	89.9	90.2	90.9	
GE 8000			59.6	59.6	59.6	69.2	74.3	74.3	78.6	88.8	89.1	89.9	89.9	90.2	91.3	91.7	92.4	
GE 7000			59.6	59.6	59.6	69.2	74.3	74.3	78.6	89.5	89.9	90.6	90.6	90.9	92.0	92.4	93.1	
GE 6000			59.6	59.6	59.6	69.9	75.4	75.4	80.1	91.7	91.7	92.5	92.5	93.1	94.2	94.6	95.3	
GE 5000			62.0	62.0	62.0	69.9	75.4	75.4	80.6	92.0	92.4	93.5	93.5	93.8	94.9	95.3	96.0	
GE 4000			62.0	62.0	62.0	69.9	75.4	75.4	81.2	92.4	92.8	93.9	93.9	94.2	95.3	95.7	96.4	
GE 3000			62.0	62.0	62.0	69.9	75.4	75.4	81.2	92.8	93.2	94.9	94.9	95.3	96.4	96.8	97.5	
GE 2000			62.0	62.0	62.0	69.9	75.4	75.4	81.2	93.1	93.5	95.7	95.7	96.0	97.1	97.5	98.2	
GE 1000			62.0	62.0	62.0	69.9	75.4	75.4	81.2	93.1	93.5	95.7	95.7	96.0	97.1	97.5	98.2	
GE 00			90.3	90.3	90.3	70.3	75.7	75.7	81.5	93.5	94.6	96.4	96.4	96.7	97.1	98.9	100.0	

TOTAL NUMBER OF OBSERVATIONS: 276



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MPC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27991 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87  
MONTH: FEB HOURS (LST): ALL

CEILING IN FEET	1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	VISIBILITY IN STATUTE MILES				GE 1	GE 7/4	GE 5/4	GE 1/2	GE 5/16	GE 1/4	GE 0
								GE 2	GE 1 1/2	GE 1 1/4	GE 1							
NO CEIL	1	0	27.1	27.2	27.2	29.4	32.3	32.2	33.7	36.2	37.8	38.4	38.8	39.1	39.5	39.7	40.6	
GE 20000	0	0	75.2	81.3	82.3	72.9	35.6	35.8	37.4	40.2	41.6	42.3	42.7	43.0	43.4	43.7	44.6	
GE 18000	0	0	75.2	81.3	82.3	72.9	35.6	35.8	37.4	40.2	41.6	42.3	42.7	43.0	43.4	43.7	44.6	
GE 16000	0	0	75.2	81.3	82.3	72.9	35.6	35.8	37.4	40.2	41.6	42.3	42.7	43.0	43.4	43.7	44.6	
GE 14000	0	0	75.2	81.3	82.3	72.9	35.6	35.8	37.4	40.2	41.6	42.3	42.7	43.0	43.4	43.7	44.6	
GE 12000	0	0	30.2	31.3	32.3	32.9	35.6	35.8	37.4	40.2	41.6	42.3	42.7	43.0	43.4	43.7	44.6	
GE 10000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 9000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 8000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 7000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 6000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 5000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 4000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 3000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 2000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 1000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 0000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 20000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 18000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 16000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 14000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 12000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 10000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 9000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 8000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 7000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 6000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 5000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 4000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 3000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 2000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 1000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	
GE 0000	1	1	42.3	42.7	42.7	46.7	51.0	51.2	53.7	59.0	60.9	61.7	62.3	62.7	63.4	63.7	64.7	

TOTAL NUMBER OF OBSERVATIONS: 1164



GLOBAL CLIMATOLOGY BRANCH  
USAF/CLTAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275450 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(EST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES																	
	1	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16	GE 17
NO CEIL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 2000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 300	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TOTAL NUMBER OF OBSERVATIONS: 773



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 0300-0500

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 201



GLOBAL CLIMATOLOGY BRANCH  
USAF/CLAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURTY OBSERVATIONS

STATION NUMBER: 270957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS (LST): 0600-0800

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NO CEIL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
GE 2000	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
GE 1800	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
GE 1600	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
GE 1400	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
GE 1200	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
GE 1000	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 900	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 800	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 700	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 600	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
GE 500	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 400	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 300	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 200	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 100	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 0	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
GE 2500	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 2000	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 1800	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 1600	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 1400	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 1200	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1	49.1
GE 1000	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 900	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 800	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 700	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 600	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 500	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 400	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 300	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 200	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 100	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
GE 0	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1

TOTAL NUMBER OF OBSERVATIONS: 229



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275001 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURLY: 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEILING		29.2	29.7	29.7	32.6	36.6	36.6	37.4	41.7	43.2	47.6	44.0	44.3	44.3	44.3	44.7
GE 10000	32.0	33.7	33.7	35.9	40.3	40.3	41.8	41.8	44.0	46.4	49.1	49.5	49.5	49.5	49.5	49.8
GE 16000	32.0	33.7	33.7	35.9	40.3	40.3	41.8	41.8	44.0	46.4	49.1	49.5	49.5	49.5	49.5	49.8
GE 16000	32.0	33.7	33.7	35.9	40.3	40.3	41.8	41.8	44.0	46.4	49.1	49.5	49.5	49.5	49.5	49.8
GE 14000	32.0	33.7	33.7	35.9	40.3	40.3	41.8	41.8	44.0	46.4	49.1	49.5	49.5	49.5	49.5	49.8
GE 12000	32.0	33.7	33.7	35.9	40.3	40.3	41.8	41.8	44.0	46.4	49.1	49.5	49.5	49.5	49.5	49.8
GE 10000	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 9000	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 8000	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 7000	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 6000	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 5000	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 4500	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 4000	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 3500	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 3000	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 2500	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 2000	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 1500	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 1000	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 900	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 800	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 700	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 600	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 500	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 400	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 300	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 200	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 100	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1
GE 0	46.1	46.2	46.2	52.0	59.0	59.0	63.0	67.4	71.1	72.2	73.3	74.0	74.7	74.7	75.1	75.1

TOTAL NUMBER OF OBSERVATIONS: 773



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 1200-1400

CEILING IN FEET	DISTANCE IN STATUTE MILES																				
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16	GE 17	GE 18	GE 19	GE 20	
NO CEILING	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
GE 10000	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
GE 10000	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1
GE 10000	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
GE 10000	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3
GE 10000	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4
GE 10000	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
GE 10000	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
GE 10000	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
GE 10000	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8
GE 10000	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
GE 10000	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
GE 10000	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1
GE 10000	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2
GE 10000	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3
GE 10000	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
GE 10000	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5
GE 10000	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6
GE 10000	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7
GE 10000	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8
GE 10000	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9
GE 10000	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0
GE 10000	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1
GE 10000	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2
GE 10000	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3
GE 10000	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4
GE 10000	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5
GE 10000	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6
GE 10000	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7
GE 10000	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8
GE 10000	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9
GE 10000	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
GE 10000	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1
GE 10000	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2
GE 10000	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3
GE 10000	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4
GE 10000	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5
GE 10000	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6
GE 10000	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7
GE 10000	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8
GE 10000	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9
GE 10000	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0
GE 10000	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1
GE 10000	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2
GE 10000	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3
GE 10000	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4
GE 10000	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5
GE 10000	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6
GE 10000	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7
GE 10000	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8
GE 10000	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9
GE 10000	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0
GE 10000	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1
GE 10000	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2
GE 10000	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3
GE 10000	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4
GE 10000	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5
GE 10000	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6
GE 10000	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7
GE 10000	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8
GE 10000	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9
GE 10000	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0
GE 10000	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1
GE 10000	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2
GE 10000	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3
GE 10000	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4
GE 1000																					

TOTAL NUMBER OF OBSERVATIONS: 297



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 74-87

MONTH: MAR

HOURS (LST): 15.00-17.00

CEILING	VISIBILITY IN STATUTE MILES																
	IN FEET	GE 1	GE 2	GE 3	GE 4	GE 5	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEILING		40.7	44.7	44.7	44.7	46.0	46.0	46.0	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
GE 20000		44.7	49.7	49.7	49.7	50.3	52.7	52.7	53.0	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 18000		45.3	49.7	49.7	49.7	50.3	52.7	52.7	53.0	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 16000		45.3	49.7	49.7	49.7	50.3	52.7	52.7	53.0	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 14000		45.3	49.7	49.7	49.7	50.3	52.7	52.7	53.0	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 12000		45.3	49.7	49.7	49.7	50.3	52.7	52.7	53.0	53.7	53.7	53.7	53.7	53.7	53.7	53.7	53.7
GE 10000		64.3	64.7	64.7	64.7	67.3	70.7	70.7	71.7	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 9000		64.3	64.7	64.7	64.7	67.3	70.7	70.7	71.7	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 8000		64.3	64.7	64.7	64.7	67.3	70.7	70.7	71.7	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 7000		64.3	64.7	64.7	64.7	67.3	70.7	70.7	71.7	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 6000		64.3	64.7	64.7	64.7	67.3	70.7	70.7	71.7	73.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0
GE 5000		65.0	65.0	65.3	65.3	69.0	71.3	71.3	72.3	74.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7
GE 4000		65.0	65.3	65.3	65.3	69.0	71.3	71.3	72.3	74.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7
GE 3000		67.3	67.7	67.7	67.7	70.7	74.0	74.0	75.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 2000		67.3	67.7	67.7	67.7	70.7	74.0	74.0	75.0	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3
GE 1000		70.3	70.7	70.7	70.7	73.7	77.0	77.0	78.0	80.0	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 2500		71.7	72.0	72.0	72.0	75.7	78.7	78.7	79.7	81.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0
GE 2000		74.0	74.3	74.3	74.3	77.7	81.0	81.0	82.0	84.0	84.3	84.3	84.3	84.3	84.3	84.3	84.3
GE 1800		74.7	75.0	75.0	75.0	78.3	81.7	81.7	82.7	84.7	85.0	85.0	85.0	85.0	85.0	85.0	85.0
GE 1600		75.0	75.3	75.3	75.3	79.7	83.0	83.0	84.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 1400		76.3	77.3	77.3	77.3	80.7	84.7	84.7	85.7	87.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0
GE 1200	.2	77.7	77.7	77.7	77.7	81.3	84.7	84.7	85.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 1000	.3	78.7	78.7	78.7	78.7	81.3	84.7	84.7	85.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 800	.3	79.0	80.0	80.0	80.0	84.0	86.7	86.7	87.0	89.0	89.	89.0	89.0	89.0	89.0	89.0	89.0
GE 700	.3	79.0	80.0	80.0	80.0	84.0	86.7	86.7	87.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 600	.3	79.0	80.0	80.0	80.0	84.0	86.7	86.7	87.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 500	.3	79.0	80.0	80.0	80.0	84.0	86.7	86.7	87.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 400	.3	79.0	80.0	80.0	80.0	84.0	86.7	86.7	87.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 300	.3	79.0	80.0	80.0	80.0	84.0	86.7	86.7	87.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 200	.3	79.0	80.0	80.0	80.0	84.0	86.7	86.7	87.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 100	.3	79.0	80.0	80.0	80.0	84.0	86.7	86.7	87.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
GE 50	.3	79.0	80.0	80.0	80.0	84.0	86.7	86.7	87.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0

TOTAL NUMBER OF OBSERVATIONS: 321



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 74-87  
MONTH: MAR HOURS(LST): 1900-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 3	GE 5	GE 7	GE 9	GE 11	GE 13	GE 15	GE 17	GE 19	GE 21	GE 23	GE 25	GE 27	GE 29	GE 31
NO CEIL		91.9	91.9	91.9	92.6	92.6	93.6	93.6	93.6	93.6	93.6	94.3	94.3	94.3	94.3	94.3
GE 1000		47.6	47.6	47.6	48.0	50.0	50.0	50.0	50.7	50.7	50.7	51.0	51.0	51.3	51.3	51.3
GE 1200		47.6	47.6	47.6	48.0	50.0	50.0	50.0	50.7	50.7	50.7	51.0	51.0	51.3	51.3	51.3
GE 1400		47.6	47.6	47.6	48.0	50.0	50.0	50.0	50.7	50.7	50.7	51.0	51.0	51.3	51.3	51.3
GE 1600		47.6	47.6	47.6	48.0	50.0	50.0	50.0	50.7	50.7	50.7	51.0	51.0	51.3	51.3	51.3
GE 1800		63.6	63.6	63.6	65.4	68.5	68.5	69.1	70.8	70.8	70.8	71.5	72.1	72.5	72.5	72.5
GE 2000		63.6	63.6	63.6	65.4	68.5	68.5	69.1	70.8	70.8	70.8	71.5	72.1	72.5	72.5	72.5
GE 2200		63.6	63.6	63.6	65.4	68.5	68.5	69.1	70.8	70.8	70.8	71.5	72.1	72.5	72.5	72.5
GE 2400		63.6	63.6	63.6	65.4	68.5	68.5	69.1	70.8	70.8	70.8	71.5	72.1	72.5	72.5	72.5
GE 2600		64.1	64.1	64.1	65.8	68.8	68.8	69.5	71.1	71.1	71.1	71.8	72.5	72.8	72.8	72.8
GE 2800		64.4	64.4	64.4	66.1	69.1	69.1	69.8	71.5	71.5	71.5	72.1	72.8	73.2	73.2	73.2
GE 3000		66.1	66.1	66.1	69.1	71.1	71.1	71.8	73.5	73.5	73.5	74.2	74.8	75.2	75.2	75.2
GE 3200		67.1	67.1	67.1	69.1	72.1	72.1	72.8	74.5	74.5	74.5	75.2	75.8	76.2	76.2	76.2
GE 3400		68.8	68.8	68.8	70.8	73.8	73.8	74.5	76.2	76.2	76.2	76.9	77.5	77.9	77.9	77.9
GE 3600		71.5	71.5	71.5	73.5	76.5	76.5	77.2	78.9	78.9	78.9	79.5	80.2	80.5	80.5	80.5
GE 3800		73.2	73.2	73.2	75.2	78.2	78.2	78.9	81.2	81.2	81.2	81.9	82.6	82.9	82.9	82.9
GE 4000		73.8	73.8	73.8	75.8	78.8	78.8	79.5	81.8	81.8	81.8	82.5	83.2	83.5	83.5	83.5
GE 4200		75.5	75.5	75.5	77.5	80.5	80.5	81.2	83.5	83.5	83.5	84.2	84.9	85.2	85.2	85.2
GE 4400		77.2	77.2	77.2	79.2	82.2	82.2	82.9	85.2	85.2	85.2	85.9	86.6	86.9	86.9	86.9
GE 4600		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 4800		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 5000		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 5200		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 5400		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 5600		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 5800		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 6000		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 6200		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 6400		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 6600		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 6800		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 7000		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 7200		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 7400		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 7600		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 7800		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 8000		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 8200		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 8400		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 8600		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 8800		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 9000		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 9200		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 9400		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 9600		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 9800		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6
GE 10000		78.9	78.9	78.9	80.9	83.9	83.9	84.6	86.9	86.9	86.9	87.6	88.3	88.6	88.6	88.6

TOTAL NUMBER OF OBSERVATIONS: 744



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275657 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS(LST): 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1	GE 1 1/4	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	45.2	47.2	45.2	46.5	48.2	48.2	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	50.5
GE 2000	47.2	47.2	47.2	48.5	50.2	50.2	50.8	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.8
GE 1500	47.2	47.2	47.2	48.5	50.2	50.2	50.8	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.8
GE 1000	47.2	47.2	47.2	48.5	50.2	50.2	50.8	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.8
GE 800	47.2	47.2	47.2	48.5	50.2	50.2	50.8	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.8
GE 600	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 400	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 200	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 100	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 50	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 25	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 10	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 5	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 2	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 1	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 0	63.1	63.1	63.1	64.8	67.8	67.8	68.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	71.4
GE 2500	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 2000	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 1500	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 1000	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 800	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 600	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 400	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 200	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 100	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 50	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 25	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 10	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 5	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 2	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 1	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 0	73.1	73.1	73.1	74.8	77.8	77.8	78.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.4
GE 2500	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 2000	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 1500	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 1000	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 800	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 600	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 400	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 200	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 100	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 50	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 25	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 10	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 5	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 2	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 1	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3
GE 0	81.7	81.7	81.7	83.4	86.4	86.4	87.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3

TOTAL NUMBER OF OBSERVATIONS: 231



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: MAR HOURS (LST): ALL

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET		GE 1/8	GE 1/4	GE 3/8	GE 1/2	GE 3/4	GE 1	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/4	GE 2 1/2	GE 2 3/4	GE 3	GE 3 1/4	GE 3 1/2
NO CEIL	1	.1	37.1	37.3	37.3	38.7	41.2	41.2	41.9	44.3	44.6	45.7	45.2	45.3	45.6	45.6	46.3
GE 10000	1	.1	40.3	40.6	40.6	42.0	45.0	45.0	45.9	48.9	49.4	49.6	49.9	50.0	50.3	50.3	51.0
GE 18000	1	.1	40.3	40.6	40.6	42.0	45.0	45.0	45.9	48.9	49.4	49.6	49.9	50.0	50.3	50.3	51.0
GE 19000	1	.1	40.3	40.6	40.6	42.0	45.0	45.0	45.9	48.9	49.4	49.6	49.9	50.0	50.3	50.3	51.0
GE 14000	1	.1	40.3	40.6	40.6	42.0	45.0	45.0	45.9	48.9	49.4	49.6	49.9	50.0	50.3	50.3	51.0
GE 12000	1	.1	40.3	40.6	40.6	42.0	45.0	45.0	45.9	48.9	49.4	49.6	49.9	50.0	50.3	50.3	51.0
GE 10000	1	.1	54.9	55.0	55.2	58.0	62.4	62.4	64.4	68.6	69.6	70.0	70.4	70.7	71.0	71.1	71.9
GE 9000	1	.1	54.9	55.0	55.2	58.0	62.4	62.4	64.4	68.6	69.6	70.0	70.4	70.7	71.0	71.1	71.9
GE 8000	1	.1	54.9	55.0	55.2	58.0	62.4	62.4	64.4	68.6	69.6	70.0	70.4	70.7	71.0	71.1	71.9
GE 7000	1	.1	54.9	55.0	55.3	58.1	62.4	62.6	64.4	68.6	69.6	70.1	70.4	70.7	71.1	71.1	72.0
GE 6000	1	.1	54.9	55.4	55.4	58.2	62.5	62.6	64.5	68.7	69.7	70.0	70.5	70.8	71.2	71.2	72.1
GE 5000	1	.1	55.6	55.6	55.9	59.7	63.2	63.2	65.2	69.4	70.4	70.9	71.2	71.5	71.8	71.9	72.7
GE 4500	1	.1	55.7	56.1	56.1	58.8	62.3	62.3	65.3	69.5	70.5	71.0	71.3	71.6	72.0	72.0	72.9
GE 4000	1	.1	57.1	57.4	57.4	60.3	64.8	64.9	66.9	71.1	72.1	72.6	72.9	73.2	73.5	73.6	74.4
GE 3500	1	.1	57.6	58.0	58.0	60.9	65.4	65.4	67.5	71.7	72.7	73.2	73.5	73.8	74.2	74.2	75.1
GE 3000	1	.1	59.3	59.6	59.6	62.5	67.1	67.1	69.2	73.4	74.4	74.9	75.2	75.5	75.9	76.0	76.8
GE 2500	1	.1	60.6	61.1	61.1	64.2	68.8	68.8	70.9	75.2	76.2	76.6	77.0	77.3	77.7	77.7	78.6
GE 2000	1	.1	62.3	62.7	62.7	66.0	70.6	70.7	73.0	77.3	78.3	78.7	79.2	79.6	80.0	80.0	80.9
GE 1800	1	.1	62.3	62.7	63.5	66.8	71.3	71.4	73.8	78.2	79.2	79.7	80.1	80.4	80.9	80.9	81.8
GE 1600	1	.1	63.9	64.4	64.4	67.9	72.7	72.9	75.3	79.7	80.7	81.3	81.6	82.1	82.5	82.6	83.5
GE 1400	1	.1	65.6	66.1	66.1	69.9	75.1	75.3	77.6	82.0	83.0	83.7	84.2	84.7	85.1	85.6	86.5

TOTAL NUMBER OF OBSERVATIONS: 2756



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): 0000-0200

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 280



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(EST): 0300-0500

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 243



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AID WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87

MONTH: APR

HOURS(IST): 0600-0900

CEILING IN FEET	1	VISIBILITY IN STATUTE MILES															
		GE 1"	GE 3"	GE 1"	GE 3"	GE 5"	GE 10"	GE 15"	GE 20"	GE 25"	GE 30"	GE 35"	GE 40"	GE 45"	GE 50"	GE 55"	GE 60"
NO CEIL	1	37	36.6	37.2	37.3	38.3	39.7	39.7	41.1	41.1	41.1	41.5	41.6	41.8	41.8	41.8	42.2
GE 2000	3	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
GE 1600	3	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
GE 1400	3	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
GE 1200	3	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
GE 1000	3	55.7	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 900	3	55.7	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 800	3	55.7	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 700	3	55.7	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 600	3	55.7	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
GE 500	3	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 400	3	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 300	3	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 200	3	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 100	3	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 0	3	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
GE 2000	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 1600	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 1400	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 1200	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 1000	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 900	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 800	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 700	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 600	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 500	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 400	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 300	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 200	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 100	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
GE 0	3	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6

TOTAL NUMBER OF OBSERVATIONS: 257



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

FILED (F) RECORD: 78-87  
MONTH: APR HOURS (LST): 0900-1100

CELLING	VISIBILITY IN STATUTE MILES															
	FEET	1/2	3/4	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13
NO CELLING		38.9	31.9	24.9	17.9	10.9	4.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
GE 20000		42.1	42.1	42.1	43.2	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
GE 18000		42.1	42.1	42.1	43.2	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
GE 16000		42.1	42.1	42.1	43.2	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
GE 14000		42.1	42.1	42.1	43.2	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
GE 12000		42.1	42.1	42.1	43.2	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
GE 10000		56.4	57.1	57.1	58.6	61.4	61.4	62.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 9000		56.4	57.1	57.1	58.6	61.4	61.4	62.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 8000		56.4	57.1	57.1	58.6	61.4	61.4	62.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 7000		56.4	57.1	57.1	58.6	61.4	61.4	62.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
GE 6000	.4	56.4	57.5	57.5	58.7	61.8	61.8	62.5	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
GE 5000	.4	57.5	58.6	58.6	59.6	62.5	62.5	62.9	63.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 4500	.4	57.5	58.6	58.6	59.6	62.5	62.5	62.9	63.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 4000	.4	58.6	59.6	59.6	60.4	61.8	61.8	62.5	63.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 3500	.4	59.6	60.4	60.4	60.4	62.1	62.1	62.9	63.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GE 3000	.4	60.4	61.4	61.4	61.4	63.2	63.2	63.6	64.6	65.4	65.4	65.4	65.4	65.4	65.4	65.4
GE 2500	.4	65.4	65.7	65.7	67.5	70.7	70.7	71.1	71.8	73.2	73.2	73.2	73.2	73.2	73.2	73.2
GE 2000	.4	67.1	67.5	67.5	70.7	72.9	72.9	73.2	73.9	75.4	75.4	75.4	75.4	75.4	75.4	75.4
GE 1800	.4	68.6	68.9	68.9	71.1	74.6	74.6	75.0	75.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1
GE 1600	.4	68.6	70.7	70.7	72.1	75.7	75.7	76.1	76.8	78.6	78.6	78.6	78.6	78.6	78.6	78.6
GE 1400	.4	71.4	72.1	72.1	74.3	78.2	78.2	78.6	79.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7
GE 1200	.4	72.5	73.6	73.6	75.4	80.0	80.0	80.4	81.1	83.2	83.2	83.2	83.2	83.2	83.2	83.2
GE 1000	.4	73.6	74.3	74.3	76.4	81.1	81.1	81.4	82.5	84.6	84.6	84.6	84.6	84.6	84.6	84.6
GE 900	.4	74.3	75.0	75.0	77.1	81.8	81.8	82.1	83.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4
GE 800	.4	74.3	75.6	75.6	77.5	82.5	82.5	82.9	83.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1
GE 700	.4	74.6	75.4	75.4	78.2	83.6	83.6	84.3	85.4	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 600	.4	74.6	75.4	75.4	78.6	83.9	83.9	84.3	85.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 500	.4	74.6	75.4	75.4	78.6	83.9	83.9	84.3	85.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 400	.4	74.6	75.4	75.4	78.6	83.9	83.9	84.3	85.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 300	.4	74.6	75.4	75.4	78.6	83.9	83.9	84.3	85.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 200	.4	74.6	75.4	75.4	78.6	83.9	83.9	84.3	85.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 100	.4	74.6	75.4	75.4	78.6	83.9	83.9	84.3	85.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
GE 0	.4	74.6	75.4	75.4	78.6	83.9	83.9	84.3	85.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4

TOTAL NUMBER OF OBSERVATIONS: 261



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(EST): 1700-1400

NO	CEILING	VISIBILITY IN STATUTE MILES															
		1	1/2	3/4	2	2 1/2	3	4	5	6	7	8	9	10	11	12	13
		FEET	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
NO	CEILING	1	1.1	75.4	81.4	85.5	88.3	90.9	93.2	95.3	97.4	99.4	101.4	103.4	105.4	107.4	109.4
GE	20000	1.1	41.4	41.4	42.1	43.5	44.6	44.6	44.6	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE	40000	1.1	41.4	41.4	42.1	43.5	44.6	44.6	44.6	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE	60000	1.1	41.4	41.4	42.1	43.5	44.6	44.6	44.6	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE	80000	1.1	41.4	41.4	42.1	43.5	44.6	44.6	44.6	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE	100000	1.1	41.4	41.4	42.1	43.5	44.6	44.6	44.6	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE	120000	1.1	41.4	41.4	42.1	43.5	44.6	44.6	44.6	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
GE	140000	1.1	57.9	57.9	58.2	59.6	61.4	61.4	61.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE	160000	1.1	57.9	57.9	58.2	59.6	61.4	61.4	61.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE	180000	1.1	57.9	57.9	58.2	59.6	61.4	61.4	61.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE	200000	1.1	57.9	57.9	58.2	59.6	61.4	61.4	61.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE	220000	1.1	61.1	61.1	61.4	62.8	64.6	64.6	64.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE	240000	1.1	61.1	61.1	61.4	62.8	64.6	64.6	64.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE	260000	1.1	61.1	61.1	61.4	62.8	64.6	64.6	64.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE	280000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	300000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	320000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	340000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	360000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	380000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	400000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	420000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	440000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	460000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	480000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	500000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	520000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	540000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	560000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	580000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	600000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	620000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	640000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	660000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	680000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	700000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	720000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	740000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	760000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	780000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	800000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	820000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	840000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	860000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	880000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	900000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	920000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	940000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	960000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	980000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1000000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1020000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1040000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1060000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1080000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1100000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1120000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1140000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1160000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1180000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1200000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1220000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1240000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1260000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1280000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1300000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1320000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1340000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1360000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1380000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1400000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1420000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1440000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
GE	1460000	1.1	64.4	64.4	65.3	66.7	67.7	67.7	67.7	68.8	68.						

TOTAL NUMBER OF OBSERVATIONS: 225



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 7a-87  
DATE: APR FOUR (1981): 1980-1980

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 255



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS (LST): 1800-2300

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE 1/2	GE 1	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/2	GE 3	GE 3 1/2	GE 4	GE 4 1/2	GE 5	GE 5 1/2	GE 6	GE 6 1/2	GE 7	GE 7 1/2
60	000	1.0	42.4	42.7	42.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
GE 100	1.0	50.7	51.0	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 160	1.0	50.7	51.0	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 140	1.0	50.7	51.0	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 120	1.0	50.7	51.0	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 100	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 200	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 300	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 400	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 500	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 600	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 700	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 800	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 900	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 1000	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 1100	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 1200	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 1300	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 1400	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 1500	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 1600	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 1700	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 1800	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 1900	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 2000	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 2100	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 2200	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 2300	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 2400	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 2500	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 2600	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 2700	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 2800	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 2900	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 3000	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 3100	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 3200	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 3300	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 3400	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 3500	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 3600	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 3700	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 3800	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 3900	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 4000	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 4100	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 4200	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 4300	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 4400	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 4500	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 4600	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 4700	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 4800	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 4900	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 5000	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 5100	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 5200	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 5300	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 5400	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 5500	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 5600	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 5700	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 5800	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 5900	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 6000	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 6100	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 6200	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 6300	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 6400	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 6500	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 6600	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 6700	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73.3
GE 6800	1.4	71.2	71.5	71.5	72.5	72.5	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	73.3	73.3	73

TOTAL NUMBER OF OBSERVATIONS: 248



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS (LST): 2100-2300

CEILING	VISIBILITY IN STATUTE MILES																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	FEET	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
NO CEILING			47.5	47.5	47.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
CE 2000			50.7	50.7	50.7	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
CE 1800			50.7	50.7	50.7	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
CE 1600			50.7	50.7	50.7	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
CE 1400			50.7	50.7	50.7	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
CE 1200			50.7	50.7	50.7	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
CE 1000			70.5	70.5	70.5	71.6	72.9	72.9	72.9	73.3	73.6	73.6	73.6	73.6	74.3	74.3	74.3	74.3
CE 900			70.5	70.5	70.5	71.6	72.9	72.9	72.9	73.3	73.6	73.6	73.6	73.6	74.3	74.3	74.3	74.3
CE 800			70.5	70.5	70.5	71.6	72.9	72.9	72.9	73.3	73.6	73.6	73.6	73.6	74.3	74.3	74.3	74.3
CE 700			70.5	70.5	70.5	71.6	72.9	72.9	72.9	73.3	73.6	73.6	73.6	73.6	74.3	74.3	74.3	74.3
CE 600			70.5	70.5	70.5	72.3	72.6	73.6	73.6	74.6	74.3	74.3	74.3	74.3	74.3	74.7	75.0	75.0
CE 500			73.6	73.6	73.6	75.0	76.7	76.7	77.1	77.4	77.7	77.7	77.7	77.7	77.7	78.1	78.4	78.4
CE 400			74.3	74.3	74.3	75.3	77.1	77.1	77.4	77.7	78.1	78.1	78.1	78.1	78.1	78.4	78.8	78.8
CE 300			76.4	76.4	76.4	77.7	80.1	80.1	80.5	80.8	81.5	81.5	81.5	81.5	81.5	81.8	82.2	82.2
CE 200			76.7	76.7	76.7	78.1	80.5	80.5	80.8	81.2	81.9	81.9	81.9	81.9	81.9	82.2	82.5	82.5
CE 100			79.4	79.4	79.4	79.8	82.2	82.2	82.5	82.9	83.6	83.6	83.6	83.6	83.6	83.9	84.2	84.2
CE 0			79.4	79.4	79.4	80.5	82.9	82.9	83.2	83.6	84.2	84.2	84.2	84.2	84.2	84.6	84.9	84.9
CE 1800			82.5	82.5	82.5	82.2	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 1600			82.5	82.5	82.5	82.2	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 1400			82.5	82.5	82.5	82.2	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 1200			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 1000			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 900			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 800			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 700			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 600			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 500			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 400			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 300			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 200			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 100			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6
CE 0			82.5	82.5	82.5	84.6	84.6	84.6	84.9	85.1	86.0	86.0	86.0	86.0	86.0	86.3	86.6	86.6

TOTAL NUMBER OF OBSERVATIONS : 272



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURTY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: APR HOURS(LST): ALL

TOTAL NUMBER OF OBSERVATIONS : 2299



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275500 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
NO CEIL	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
GE 2000	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 1800	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 1600	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 1400	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 1200	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
GE 1000	80.9	80.9	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 900	80.9	80.9	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 800	80.9	80.9	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 700	80.9	80.9	80.9	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 600	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
GE 500	84.9	84.9	84.9	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 400	84.9	84.9	84.9	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 300	84.9	84.9	84.9	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 200	84.9	84.9	84.9	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 100	84.9	84.9	84.9	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 0	84.9	84.9	84.9	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
GE 2000	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1800	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1600	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1400	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1200	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1000	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 900	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 800	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 700	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 600	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 500	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 400	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 300	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 200	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 100	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 0	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 2000	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1800	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1600	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1400	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1200	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1000	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 900	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 800	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 700	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 600	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 500	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 400	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 300	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 200	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 100	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 0	94.9	94.9	94.9	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6

TOTAL NUMBER OF OBSERVATIONS: 276



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27545 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87  
MONTH: MAY HOURS/STATION: 0300-0500

CEILING		VISIBILITY IN STATUTE MILES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
IN FEET	1	GE 1/8	GE 1/4	GE 3/8	GE 1/2	GE 5/8	GE 3/4	GE 7/8	GE 1	GE 1 1/8	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 1 7/8	GE 2	GE 2 1/8	GE 2 1/4	GE 2 1/2	GE 2 3/4	GE 2 7/8	GE 3	GE 3 1/8	GE 3 1/4	GE 3 1/2	GE 3 3/4	GE 3 7/8	GE 4	GE 4 1/8	GE 4 1/4	GE 4 1/2	GE 4 3/4	GE 4 7/8	GE 5	GE 5 1/8	GE 5 1/4	GE 5 1/2	GE 5 3/4	GE 5 7/8	GE 6	GE 6 1/8	GE 6 1/4	GE 6 1/2	GE 6 3/4	GE 6 7/8	GE 7	GE 7 1/8	GE 7 1/4	GE 7 1/2	GE 7 3/4	GE 7 7/8	GE 8	GE 8 1/8	GE 8 1/4	GE 8 1/2	GE 8 3/4	GE 8 7/8	GE 9	GE 9 1/8	GE 9 1/4	GE 9 1/2	GE 9 3/4	GE 9 7/8	GE 10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NO CEIL	1	2	53.8	53.8	53.8	54.2	54.1	54.1	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS (LST): 0600-0600

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	1/2	5/8	3/4	7/8	1	1 1/2	1 1/4	1	3/4	5/8	1/2	7/16	1/4	0	
60 CEIL 1	.7	50.3	50.7	50.7	51.3	52.0	52.0	52.7	53.0	53.0	53.0	53.3	53.3	53.3	53.3	
GE 20000	.7	55.3	55.7	55.7	56.3	57.3	57.3	58.0	58.3	58.3	58.3	58.7	58.7	58.7	58.7	
GE 18000	.7	55.3	55.7	55.7	56.3	57.3	57.3	58.0	58.3	58.3	58.3	58.7	58.7	58.7	58.7	
GE 16000	.7	55.3	55.7	55.7	56.3	57.3	57.3	58.0	58.3	58.3	58.3	58.7	58.7	58.7	58.7	
GE 14000	.7	55.3	55.7	55.7	56.3	57.3	57.3	58.0	58.3	58.3	58.3	58.7	58.7	58.7	58.7	
GE 12000	.7	55.3	55.7	55.7	56.3	57.3	57.3	58.0	58.3	58.3	58.3	58.7	58.7	58.7	58.7	
GE 10000	1.0	77.3	77.7	77.7	79.0	80.7	80.7	81.3	81.7	81.7	82.0	82.3	82.3	82.3	82.3	
GE 9000	1.0	77.3	77.7	77.7	79.0	80.7	80.7	81.3	81.7	81.7	82.0	82.3	82.3	82.3	82.3	
GE 8000	1.0	77.3	77.7	77.7	79.0	80.7	80.7	81.3	81.7	81.7	82.0	82.3	82.3	82.3	82.3	
GE 7000	1.0	77.3	77.7	77.7	79.0	80.7	80.7	81.3	81.7	81.7	82.0	82.3	82.3	82.3	82.3	
GE 6000	1.0	79.3	79.3	79.3	79.7	81.3	81.3	82.0	82.3	82.3	82.3	83.0	83.0	83.0	83.0	
GE 5000	1.0	80.3	80.3	80.3	81.7	83.7	83.7	84.3	84.7	84.7	85.0	85.3	85.3	85.3	85.3	
GE 4000	1.0	80.3	80.7	80.7	82.3	84.3	84.3	85.0	85.3	85.3	85.7	86.0	86.0	86.0	86.0	
GE 3000	1.0	81.7	82.0	82.0	84.3	86.3	86.3	87.0	87.3	87.3	87.7	88.0	88.0	88.0	88.0	
GE 2000	1.0	82.3	82.3	82.3	84.3	86.7	86.7	87.3	87.7	87.7	88.0	88.3	88.3	88.3	88.3	
GE 1000	1.0	82.7	83.0	83.0	85.3	87.3	87.3	88.0	88.3	88.3	88.3	89.0	89.0	89.0	89.0	
GE 500	1.0	83.7	84.0	84.0	86.0	88.3	88.3	89.0	89.3	89.3	89.7	90.0	90.0	90.0	90.0	
GE 200	1.0	84.0	85.3	85.3	87.3	89.0	89.0	90.7	91.0	91.0	91.3	91.7	91.7	91.7	91.7	
GE 100	1.0	85.3	85.7	85.7	87.7	89.3	89.3	91.0	91.3	91.3	91.7	92.0	92.0	92.0	92.0	
GE 50	1.0	86.3	86.7	86.7	88.7	91.3	91.3	92.0	92.3	92.3	92.7	93.0	93.0	93.0	93.0	
GE 20	1.0	86.3	86.7	86.7	88.7	91.3	91.3	92.0	92.3	92.3	92.7	93.0	93.0	93.0	93.0	
GE 10	1.0	89.3	89.7	89.7	91.7	94.3	94.3	95.0	95.7	95.7	96.0	96.3	96.3	96.3	96.3	
GE 5	1.0	89.3	89.7	89.7	91.7	94.3	94.3	95.0	95.7	95.7	96.0	96.3	96.3	96.3	96.3	
GE 0	1.0	89.3	89.7	89.7	91.7	94.3	94.3	95.0	95.7	95.7	96.0	96.3	96.3	96.3	96.3	
GE 7000	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 6000	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 5000	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 4000	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 3000	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 2000	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 1000	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 500	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 200	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 100	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 50	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 20	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 10	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 5	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	
GE 0	1.0	92.3	92.3	92.3	92.7	95.3	95.3	96.0	96.7	96.7	97.0	97.3	97.3	97.3	97.3	

TOTAL NUMBER OF OBSERVATIONS: 703



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS (LST): 0900-1100

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 301



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

FIELD OF RECORD: 72-87

MONTH: MAY HOURS (LST): 1200-1400

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 217



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

REVISION OF RECORD: 76-67

MONTH: MAY HOURS(LST): 1500-1700

CEILING	VISIBILITY IN STATUTE MILES																	
	IN FEET	1	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4
		1	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4
60 CEIL 1	1.2	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
60 20000	1.7	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
60 18000	1.7	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
60 16000	1.7	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
60 14000	1.7	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
60 12000	1.7	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
60 10000	1.2	69.9	69.9	69.9	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
60 9000	1.2	69.9	69.9	69.9	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
60 8000	1.2	69.9	69.9	69.9	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
60 7000	1.2	69.9	69.9	69.9	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
60 6000	1.2	70.6	70.6	70.6	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
60 5000	1.2	77.6	78.3	78.3	78.6	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
60 4000	1.2	77.6	78.6	78.6	78.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
60 3000	1.2	85.3	86.3	86.3	86.3	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
60 2000	1.2	85.6	86.2	86.3	86.6	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
60 1000	1.3	88.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
60 20000	1.3	91.6	92.3	92.3	92.6	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
60 18000	1.3	91.6	92.6	92.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
60 16000	1.3	91.6	93.2	93.3	93.6	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
60 14000	1.3	91.6	93.6	93.6	94.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
60 12000	1.3	91.6	93.6	93.6	94.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
60 10000	1.2	97.0	97.0	97.0	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
60 9000	1.2	97.0	97.0	97.0	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
60 8000	1.2	97.0	97.0	97.0	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
60 7000	1.2	97.0	97.0	97.0	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
60 6000	1.2	97.0	97.0	97.0	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
60 5000	1.2	97.0	97.0	97.0	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
60 4000	1.2	97.0	97.0	97.0	97.0	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
60 3000	1.3	98.3	97.7	97.7	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
60 2000	1.3	98.3	97.7	97.7	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
60 1000	1.3	98.3	97.7	97.7	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
60 20000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 18000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 16000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 14000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 12000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 10000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 9000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 8000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 7000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 6000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 5000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 4000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 3000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 2000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60 1000	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 299



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(LST): 1600-2000

TOTAL NUMBER OF OBSERVATIONS: 244



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(LST): 2100-2300

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 7.1



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY HOURS(IST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9
NO CEIL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 2000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 900	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 700	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 300	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TOTAL NUMBER OF OBSERVATIONS: 234



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275901 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 75-87  
MONTH: JUN HOURS (LST): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEIL	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
GE 2000	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 1800	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 1600	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 1400	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 1200	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
GE 1000	69.9	69.9	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 900	69.9	69.9	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 800	69.9	69.9	69.9	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
GE 700	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 600	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
GE 500	77.4	77.4	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 400	77.4	77.4	77.4	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
GE 300	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 200	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 100	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
GE 2000	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 1800	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 1600	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 1400	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 1200	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 1000	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 900	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 800	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 700	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 600	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 500	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 400	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 300	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 200	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
GE 100	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9

TOTAL NUMBER OF OBSERVATIONS: 250



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

REF ID: A60900 74-87  
 NAME: JIM HOURS (LTD): 0305-0500

[illegible]

14. The following table shows the number of people who attended the 2000 Summer Olympic Games in Sydney, Australia, by country.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING AND VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27000 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN. HOURS (LST): 0600-0500

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE 10	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEILING		46.2	44.2	48.3	49.3	51.0	51.0	51.0	51.4	51.4	51.4	51.7	52.4	52.4	52.4	52.7	
GE 2000		54.1	54.2	54.3	54.3	54.1	54.1	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 1800		54.2	54.3	54.3	54.3	54.1	54.1	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 1600		54.2	54.3	54.3	54.3	54.1	54.1	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 1400		54.2	54.3	54.3	54.3	54.1	54.1	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 1200		54.2	54.3	54.3	54.3	54.1	54.1	54.1	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 1000		66.6	66.6	66.6	66.7	72.1	72.1	72.1	73.5	73.5	73.5	73.5	73.5	73.5	74.5	74.5	74.5
GE 900		66.6	66.6	66.6	66.7	72.1	72.1	72.1	73.5	73.5	73.5	73.5	73.5	73.5	74.5	74.5	74.5
GE 800		66.6	66.6	66.6	66.7	72.1	72.1	72.1	73.5	73.5	73.5	73.5	73.5	73.5	74.5	74.5	74.5
GE 700		66.6	66.7	66.7	66.7	72.1	72.1	72.1	73.5	73.5	73.5	73.5	73.5	73.5	74.5	74.5	74.5
GE 600		66.6	66.7	66.7	66.7	72.1	72.1	72.1	73.5	73.5	73.5	73.5	73.5	73.5	74.5	74.5	74.5
GE 500		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 400		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 300		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 200		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 100		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 0		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 2000		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 1800		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 1600		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 1400		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 1200		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 1000		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 900		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 800		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 700		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 600		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 500		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 400		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 300		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 200		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 100		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9
GE 0		71.1	71.1	71.1	71.1	77.6	77.6	77.6	78.9	78.9	78.9	78.9	78.9	78.9	79.9	79.9	79.9

TOTAL NUMBER OF OBSERVATIONS: 244



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87  
MONTH: JUN HOURS(IST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEIL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 2000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TOTAL NUMBER OF OBSERVATIONS: 100



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VEHICLES VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USR

FILE NUMBER OF RECORD: 78-67

MONTH: JUN

HOURS (LST): 1700-1400

CEILING	VISIBILITY IN STATUTE MILES																
	1/4	1/2	3/4	1	1 1/4	1 1/2	2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/4	4 1/2	5	5 1/4
	FEET	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
40 CEILING	1.0	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4	37.4
GE 20000	1.0	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 16000	1.0	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 16000	1.0	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 12000	1.0	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 12000	1.0	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
GE 10000	1.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 9000	1.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 8000	1.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 7000	1.4	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
GE 6000	1.4	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
GE 5000	1.7	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 4000	1.7	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
GE 4000	1.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
GE 3000	1.7	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
GE 3000	1.7	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
GE 2500	1.7	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
GE 2000	1.7	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
GE 1800	1.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
GE 1500	1.7	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
GE 1200	1.7	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
GE 1000	1.7	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
GE 900	1.7	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
GE 800	1.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
GE 700	1.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
GE 600	1.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
GE 500	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 400	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 300	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 200	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 100	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GE 0	1.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 244



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MSC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(IST): 1500-1700

CEILING		VISIBILITY IN STATUTE MILES															
IN	FEET	1	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
		1	1/2	1/4	1/8	1/16	1/32	1/64	1/128	1/256	1/512	1/1024	1/2048	1/4096	1/8192	1/16384	0
NO CLIL	1	.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
GE 20000	1	.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 18000	1	.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 16000	1	.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 14000	1	.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 12000	1	.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 10000	1	.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 9000	1	.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 8000	1	.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 7000	1	.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
GE 6000	1	.7	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
GE 5000	1.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
GE 4500	1.0	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
GE 4000	1.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
GE 3500	1.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
GE 3000	1.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
GE 2500	1.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
GE 2000	1.0	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
GE 1800	1.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
GE 1600	1.0	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
GE 1400	1.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
GE 1200	1.0	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
GE 1000	1.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
GE 900	1.0	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 800	1.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 700	1.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 600	1.0	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
GE 500	1.0	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 400	1.0	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 300	1.0	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 200	1.0	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 100	1.0	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
GE 0	1.0	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9

TOTAL NUMBER OF OBSERVATIONS: 258



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27591 STATION NAME: KAZAN, USSR

PERIOD OF RECORD: 76-87  
MONTH: JUN HOURS (LST): 1800-2500

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
NO CLIM	1	1.7	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
GE 2000	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 1800	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 1600	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 1400	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 1200	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 1000	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 900	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 800	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 700	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 600	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 500	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 400	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 300	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 200	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 100	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 50	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 20	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 10	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 5	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 2	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 1	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
GE 0	1	1.7	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4

TOTAL NUMBER OF OBSERVATIONS: 244



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS(LST): 2100-2300

TOTAL NUMBER OF OBSERVATIONS: 274



GLOBAL CLIMATOLOGY BRANCH  
USAF/CIAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27095 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUN HOURS (LST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 1 1/2	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
NO CEIL	.4	45.7	45.7	45.7	45.7	46.0	46.0	46.5	46.5	47.0	47.0	47.1	47.1	47.1	47.1	47.3
GE 2000	.4	47.7	49.8	49.8	50.1	50.7	50.7	50.7	50.8	51.2	51.2	51.2	51.2	51.4	51.4	51.5
GE 1800	.4	47.7	49.8	49.8	50.1	50.7	50.7	50.7	50.8	51.2	51.2	51.2	51.2	51.4	51.4	51.5
GE 1600	.4	47.7	49.8	49.8	50.1	50.7	50.7	50.7	50.8	51.2	51.2	51.2	51.2	51.4	51.4	51.5
GE 1400	.4	47.7	49.8	49.8	50.1	50.7	50.7	50.7	50.8	51.2	51.2	51.2	51.2	51.4	51.4	51.5
GE 1200	.4	47.7	49.8	49.8	50.1	50.7	50.7	50.7	50.8	51.2	51.2	51.2	51.2	51.4	51.4	51.5
GE 1000	.6	54.4	54.4	54.4	55.1	56.2	56.2	56.4	56.4	57.0	57.0	57.1	57.1	57.2	57.2	57.4
GE 900	.6	54.4	54.4	54.4	55.1	56.2	56.2	56.4	56.4	57.0	57.0	57.1	57.1	57.2	57.2	57.4
GE 800	.6	54.4	54.4	54.4	55.1	56.2	56.2	56.4	56.4	57.0	57.0	57.1	57.1	57.2	57.2	57.4
GE 700	.6	54.4	54.4	54.4	55.1	56.2	56.2	56.4	56.4	57.0	57.0	57.1	57.1	57.2	57.2	57.4
GE 600	.6	55.8	55.8	55.8	56.6	57.7	57.7	57.7	57.7	58.5	58.5	58.5	58.5	58.7	58.7	58.8
GE 500	.7	71.9	72.2	72.2	72.7	73.9	73.9	74.1	74.4	74.8	74.8	74.9	74.9	75.0	75.0	75.1
GE 450	.7	72.4	72.5	72.5	73.2	74.4	74.4	74.6	75.3	75.3	75.3	75.4	75.5	75.5	75.5	75.6
GE 400	.8	79.9	80.0	80.0	80.8	82.1	82.1	82.3	82.9	82.9	82.9	83.2	83.2	83.2	83.2	83.3
GE 350	.8	80.4	80.6	80.6	81.4	82.7	82.7	82.9	83.5	83.5	83.5	83.6	83.6	83.6	83.6	83.9
GE 300	.8	82.3	82.5	82.5	83.3	84.6	84.6	85.0	85.6	85.7	85.7	85.8	85.9	85.9	85.9	86.0
GE 250	.8	85.1	85.3	85.3	86.3	87.9	87.9	88.1	88.6	88.8	88.8	88.9	89.1	89.1	89.1	89.2
GE 200	.8	87.2	87.4	87.4	88.4	89.1	89.2	90.4	91.1	91.2	91.2	91.2	91.4	91.4	91.4	91.5
GE 180	.8	88.1	88.2	88.2	89.2	91.0	91.7	91.2	92.0	92.0	92.0	92.1	92.2	92.2	92.2	92.4
GE 160	.8	89.1	89.2	89.2	90.3	92.1	92.2	92.4	93.2	93.2	93.2	93.3	93.5	93.5	93.5	93.6
GE 140	.9	90.7	90.9	90.9	92.1	94.1	94.2	94.4	95.2	95.4	95.4	95.5	95.6	95.6	95.6	95.8
GE 120	.9	91.3	91.3	91.3	92.0	93.3	93.3	93.5	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.9
GE 100	.9	92.1	92.2	92.2	93.4	94.7	94.7	94.8	95.7	95.7	95.7	95.8	95.8	95.8	95.8	96.2
GE 90	.9	92.6	92.6	92.6	94.2	95.5	95.5	95.7	96.1	96.2	96.2	96.3	96.5	96.5	96.5	96.6
GE 80	.9	92.9	93.1	93.1	94.5	97.2	97.3	97.6	98.4	98.5	98.5	98.7	98.7	98.7	98.7	99.3
GE 70	.9	93.1	93.2	93.2	94.7	97.4	97.4	97.7	99.0	99.1	99.1	99.2	99.4	99.4	99.4	99.5
GE 60	.9	93.1	93.2	93.2	94.8	97.4	97.5	97.8	99.2	99.2	99.2	99.3	99.4	99.4	99.4	99.7
GE 50	.9	93.1	93.3	93.3	94.5	97.5	97.5	97.9	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.9
GE 40	.9	93.1	93.3	93.3	94.5	97.5	97.5	97.9	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.9
GE 30	.9	93.1	93.3	93.3	94.5	97.5	97.5	97.9	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.9
GE 20	.9	93.1	93.3	93.3	94.5	97.5	97.5	97.9	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.9
GE 10	.9	93.1	93.3	93.3	94.5	97.5	97.5	97.9	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.9
GE 0	.9	93.1	93.3	93.3	94.5	97.5	97.5	97.9	99.4	99.4	99.4	99.4	99.6	99.6	99.6	99.9

TOTAL NUMBER OF OBSERVATIONS: 2740



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 270957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(UT): 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 7/8	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL	1	.7	61.1	61.1	61.4	60.7	62.0	62.4	62.7	63.0	63.4	63.4	63.4	63.7	63.7	63.7
GE 20000	1	.7	61.1	61.1	61.4	61.7	63.0	63.4	63.7	64.0	64.4	64.4	64.4	64.7	64.7	64.7
GE 18000	1	.7	61.1	61.1	61.4	61.7	63.0	63.4	63.7	64.0	64.4	64.4	64.4	64.7	64.7	64.7
GE 16000	1	.7	61.1	61.1	61.4	61.7	63.0	63.4	63.7	64.0	64.4	64.4	64.4	64.7	64.7	64.7
GE 14000	1	.7	61.1	61.1	61.4	61.7	63.0	63.4	63.7	64.0	64.4	64.4	64.4	64.7	64.7	64.7
GE 12000	1	.7	61.1	61.1	61.4	61.7	63.0	63.4	63.7	64.0	64.4	64.4	64.4	64.7	64.7	64.7
GE 10000	1	1.0	76.2	76.2	76.5	76.9	78.5	78.9	79.5	79.9	80.2	80.2	80.2	80.5	80.5	80.5
GE 9000	1	1.0	76.2	76.2	76.5	76.9	78.5	78.9	79.5	79.9	80.2	80.2	80.2	80.5	80.5	80.5
GE 8000	1	1.0	76.2	76.2	76.5	76.9	78.5	78.9	79.5	79.9	80.2	80.2	80.2	80.5	80.5	80.5
GE 7000	1	1.0	76.2	76.2	76.5	76.9	78.5	78.9	79.5	79.9	80.2	80.2	80.2	80.5	80.5	80.5
GE 6000	1	1.0	76.2	76.2	76.5	76.9	78.5	78.9	79.5	79.9	80.2	80.2	80.2	80.5	80.5	80.5
GE 5000	1	1.0	79.5	79.5	79.9	80.5	82.2	82.5	83.2	83.5	83.8	83.8	83.8	84.2	84.2	84.2
GE 4500	1	1.0	79.5	79.5	79.9	80.5	82.2	82.5	83.2	83.5	83.8	83.8	83.8	84.2	84.2	84.2
GE 4000	1	1.0	83.8	83.8	84.2	84.8	86.5	86.8	87.5	87.8	88.1	88.1	88.1	88.4	88.4	88.4
GE 3500	1	1.0	83.8	83.8	84.2	84.8	86.5	86.8	87.5	87.8	88.1	88.1	88.1	88.4	88.4	88.4
GE 3000	1	1.0	84.8	84.8	85.5	86.8	87.8	88.1	88.8	89.1	89.4	89.4	89.4	89.8	89.8	89.8
GE 2500	1	1.0	85.5	85.5	86.1	86.8	88.4	88.8	89.5	89.8	90.1	90.1	90.1	90.4	90.4	90.4
GE 2000	1	1.0	86.1	86.1	86.5	87.1	88.4	88.8	89.5	89.8	90.1	90.1	90.1	90.4	90.4	90.4
GE 1800	1	1.0	86.1	86.1	86.5	87.1	88.4	88.8	89.5	89.8	90.1	90.1	90.1	90.4	90.4	90.4
GE 1600	1	1.0	87.5	87.5	87.8	88.4	89.1	89.5	90.1	90.4	90.7	90.7	90.7	91.4	91.4	91.4
GE 1400	1	1.0	87.5	87.5	87.8	88.4	89.1	89.5	90.1	90.4	90.7	90.7	90.7	91.4	91.4	91.4
GE 1200	1	1.0	88.4	88.4	89.1	89.5	90.1	90.4	90.7	91.4	91.7	91.7	91.7	92.1	92.1	92.1
GE 1000	1	1.0	88.4	88.4	89.1	89.5	90.1	90.4	90.7	91.4	91.7	91.7	91.7	92.1	92.1	92.1
GE 900	1	1.0	89.1	89.1	89.5	90.1	90.4	90.7	91.4	91.7	92.1	92.1	92.1	92.4	92.4	92.4
GE 800	1	1.0	89.1	89.1	89.5	90.1	90.4	90.7	91.4	91.7	92.1	92.1	92.1	92.4	92.4	92.4
GE 700	1	1.0	89.1	89.1	89.5	90.1	90.4	90.7	91.4	91.7	92.1	92.1	92.1	92.4	92.4	92.4
GE 600	1	1.0	89.1	89.1	89.5	90.1	90.4	90.7	91.4	91.7	92.1	92.1	92.1	92.4	92.4	92.4
GE 500	1	1.0	89.1	89.1	89.5	90.1	90.4	90.7	91.4	91.7	92.1	92.1	92.1	92.4	92.4	92.4
GE 400	1	1.0	89.1	89.1	89.5	90.1	90.4	90.7	91.4	91.7	92.1	92.1	92.1	92.4	92.4	92.4
GE 300	1	1.0	89.1	89.1	89.5	90.1	90.4	90.7	91.4	91.7	92.1	92.1	92.1	92.4	92.4	92.4
GE 200	1	1.0	89.1	89.1	89.5	90.1	90.4	90.7	91.4	91.7	92.1	92.1	92.1	92.4	92.4	92.4
GE 100	1	1.0	89.1	89.1	89.5	90.1	90.4	90.7	91.4	91.7	92.1	92.1	92.1	92.4	92.4	92.4
GE 0	1	1.0	89.1	89.1	89.5	90.1	90.4	90.7	91.4	91.7	92.1	92.1	92.1	92.4	92.4	92.4

TOTAL NUMBER OF OBSERVATIONS: 323



GLOBAL CLIMATOLOGY BRANCH  
USAF/CLAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 250907 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87

MONTH: JUL HOURS(EST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NO CEIL	50.5	50.5	50.5	51.5	51.7	56.4	57.4	59.0	59.0	59.5	59.5	59.7	60.0	60.0	61.0	61.0	61.0
GE 20000	51.4	51.4	51.5	52.5	57.0	57.7	58.7	60.7	60.7	60.7	61.0	61.3	61.6	61.6	63.0	63.0	63.0
GE 18000	51.4	51.4	51.5	52.5	57.0	57.7	58.7	60.7	60.7	60.7	61.0	61.3	61.6	61.6	63.0	63.0	63.0
GE 16000	51.4	51.4	51.5	52.5	57.0	57.7	58.7	60.7	60.7	60.7	61.0	61.3	61.6	61.6	63.0	63.0	63.0
GE 14000	51.4	51.4	51.5	52.5	57.0	57.7	58.7	60.7	60.7	60.7	61.0	61.3	61.6	61.6	63.0	63.0	63.0
GE 12000	51.4	51.4	51.5	52.5	57.0	57.7	58.7	60.7	60.7	60.7	61.0	61.3	61.6	61.6	63.0	63.0	63.0
GE 10000	62.6	62.6	63.6	64.9	70.6	71.5	72.5	74.4	74.4	74.4	75.1	75.4	75.7	75.7	77.4	77.4	77.4
GE 9000	62.6	62.6	63.6	64.9	70.6	71.5	72.5	74.4	74.4	74.4	75.1	75.4	75.7	75.7	77.4	77.4	77.4
GE 8000	62.6	62.6	63.6	64.9	70.6	71.5	72.5	74.4	74.4	74.4	75.1	75.4	75.7	75.7	77.4	77.4	77.4
GE 7000	62.6	62.6	63.6	64.9	70.6	71.5	72.5	74.4	74.4	74.4	75.1	75.4	75.7	75.7	77.4	77.4	77.4
GE 6000	62.6	62.6	63.6	64.9	70.6	71.5	72.5	74.4	74.4	74.4	75.1	75.4	75.7	75.7	77.4	77.4	77.4
GE 5000	65.6	65.6	66.9	68.2	74.2	75.4	76.4	78.4	78.4	78.4	79.7	79.7	79.7	79.7	81.3	81.3	81.3
GE 4000	65.6	65.6	66.9	68.2	74.2	75.4	76.4	78.4	78.4	78.4	79.7	79.7	79.7	79.7	81.3	81.3	81.3
GE 3000	72.1	72.1	73.5	74.8	80.7	81.3	82.3	84.6	84.6	84.6	85.9	85.9	85.9	85.9	87.5	87.5	87.5
GE 2000	72.1	72.1	73.5	74.8	80.7	81.3	82.3	84.6	84.6	84.6	85.9	85.9	85.9	85.9	87.5	87.5	87.5
GE 1000	74.1	74.1	74.4	76.7	84.3	84.9	85.9	89.2	89.2	89.2	90.5	90.5	90.5	90.5	92.1	92.1	92.1
GE 800	75.7	75.7	76.1	78.4	86.2	86.9	87.9	91.1	91.1	91.1	91.5	91.5	91.5	91.5	92.5	92.5	92.5
GE 700	75.7	75.7	76.1	78.4	86.2	86.9	87.9	91.1	91.1	91.1	91.5	91.5	91.5	91.5	92.5	92.5	92.5
GE 600	76.4	76.4	76.7	79.7	86.9	87.5	88.5	91.8	91.8	91.8	92.1	92.1	92.1	92.1	93.1	93.1	93.1
GE 500	77.7	77.7	78.0	80.7	88.2	88.9	89.8	93.1	93.1	93.1	93.4	93.4	93.4	93.4	94.4	94.4	94.4
GE 400	78.1	78.1	78.3	81.6	89.8	90.5	91.5	95.1	95.1	95.1	95.4	95.4	95.4	95.4	96.4	96.4	96.4
GE 300	78.1	78.1	78.3	81.6	89.8	90.5	91.5	95.1	95.1	95.1	95.4	95.4	95.4	95.4	96.4	96.4	96.4
GE 200	79.3	79.3	79.7	82.3	90.2	90.8	91.8	95.4	95.4	95.4	95.7	95.7	95.7	95.7	96.7	96.7	96.7
GE 100	79.3	79.3	79.7	82.3	90.2	90.8	91.8	95.4	95.4	95.4	95.7	95.7	95.7	95.7	96.7	96.7	96.7
GE 50	79.3	79.3	79.7	82.3	90.2	90.8	91.8	95.4	95.4	95.4	95.7	95.7	95.7	95.7	96.7	96.7	96.7
GE 0	79.3	79.3	79.7	82.3	90.2	90.8	91.8	95.4	95.4	95.4	95.7	95.7	95.7	95.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS: 104



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 75-87  
MONTH: Jul HOURS (EST): 0600-2600

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GF 3	GE 4	GE 5	GF 6	GE 7	GF 8	GE 9	GF 10	GE 11	GF 12	GE 13	GF 14	GE 15	GF 16
NO CEIL																
GE 2000																
GE 1800																
GE 1600																
GE 1400																
GE 1200																
GE 1000																
GE 900																
GE 800																
GE 700																
GE 600																
GE 500																
GE 400																
GE 300																
GE 200																
GE 100																
GE 50																
GE 20																
GE 10																
GE 5																
GE 2																
GE 1																
GE 0																

TOTAL NUMBER OF OBSERVATIONS: 101



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAG

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 75-87  
MONTH: JUL HOURS(IST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEIL	1.3	53.3	53.3	53.3	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
GE 10000	1.3	55.6	55.6	55.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 18000	1.3	55.6	55.6	55.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 16000	1.3	55.6	55.6	55.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 14000	1.3	55.6	55.6	55.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 12000	1.3	55.6	55.6	55.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
GE 10000	1.7	72.0	72.0	73.0	75.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 9000	1.7	72.0	72.0	73.0	75.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 8000	1.7	72.0	72.0	73.0	75.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 7000	1.7	72.0	72.0	73.0	75.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
GE 6000	1.7	74.2	74.2	74.2	75.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
GE 5000	1.7	77.2	77.2	77.2	78.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
GE 4500	1.7	77.2	77.2	77.2	78.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
GE 4000	1.7	80.8	80.8	80.8	82.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
GE 3500	1.7	81.5	81.5	81.5	82.5	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
GE 3000	1.7	81.5	81.5	81.5	82.8	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
GE 2500	1.7	84.8	84.8	84.8	86.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 2000	1.7	86.4	86.4	86.4	87.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 1800	1.7	86.4	86.4	86.4	87.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
GE 1600	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 1400	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 1200	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 1000	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 900	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 800	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 700	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 600	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 500	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 400	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 300	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 200	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 100	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
GE 0	1.7	87.7	87.7	87.7	89.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4

TOTAL NUMBER OF OBSERVATIONS: 700



GLOBAL CLIMATOLOGY BRANCH  
USAF/STAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27501 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS/ILS: 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
NO CEIL	1	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
GE 2000	1	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 1800	1	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 1600	1	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 1400	1	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 1200	1	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 1000	1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 900	1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 800	1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 700	1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 600	1	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
GE 500	1	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
GE 400	1	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
GE 350	1	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
GE 300	1	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
GE 250	1	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
GE 200	1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
GE 180	1	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
GE 160	1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
GE 140	1	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
GE 120	1	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
GE 100	1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 80	1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 60	1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 40	1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 20	1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 10	1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 5	1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
GE 1	1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS: 299



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

REPORT OF RECORD: 78-87  
DATE: JUL HOURS(EST): 15:00-1700

TOTAL NUMBER OF OBSERVATIONS: 240

1



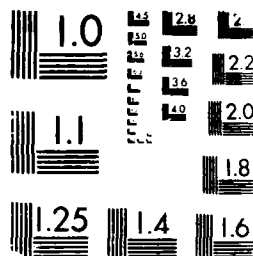
AD-A196 644

KAZAN USSR LIMITED SURFACE OBSERVATIONS CLIMATIC  
SUMMARY (LISACS) PARTS 8-10 (U) AIR FORCE ENVIRONMENTAL  
TECHNICAL APPLICATIONS CENTER SCOTT AFB IL JUN 88  
UNCLASSIFIED USAFETAC/DS-88/027 P/G 4/2 NL

3/3

END  
9-10  
Bc





MICROCOPY RESOLUTION TEST CHART



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275951 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUL HOURS(UTC): 1800-2000

CEILING				VISIBILITY IN STATUTE MILES																
IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
50	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	51.0	51.1	51.2	51.3	51.4	51.5	51.6	51.7	51.8	51.9	52.0
55	55.1	55.2	55.3	55.4	55.5	55.6	55.7	55.8	55.9	56.0	56.1	56.2	56.3	56.4	56.5	56.6	56.7	56.8	56.9	57.0
60	60.1	60.2	60.3	60.4	60.5	60.6	60.7	60.8	60.9	61.0	61.1	61.2	61.3	61.4	61.5	61.6	61.7	61.8	61.9	62.0
65	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0
70	70.1	70.2	70.3	70.4	70.5	70.6	70.7	70.8	70.9	71.0	71.1	71.2	71.3	71.4	71.5	71.6	71.7	71.8	71.9	72.0
75	75.1	75.2	75.3	75.4	75.5	75.6	75.7	75.8	75.9	76.0	76.1	76.2	76.3	76.4	76.5	76.6	76.7	76.8	76.9	77.0
80	80.1	80.2	80.3	80.4	80.5	80.6	80.7	80.8	80.9	81.0	81.1	81.2	81.3	81.4	81.5	81.6	81.7	81.8	81.9	82.0
85	85.1	85.2	85.3	85.4	85.5	85.6	85.7	85.8	85.9	86.0	86.1	86.2	86.3	86.4	86.5	86.6	86.7	86.8	86.9	87.0
90	90.1	90.2	90.3	90.4	90.5	90.6	90.7	90.8	90.9	91.0	91.1	91.2	91.3	91.4	91.5	91.6	91.7	91.8	91.9	92.0
95	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.6	96.7	96.8	96.9	97.0
100	100.1	100.2	100.3	100.4	100.5	100.6	100.7	100.8	100.9	101.0	101.1	101.2	101.3	101.4	101.5	101.6	101.7	101.8	101.9	102.0
105	105.1	105.2	105.3	105.4	105.5	105.6	105.7	105.8	105.9	106.0	106.1	106.2	106.3	106.4	106.5	106.6	106.7	106.8	106.9	107.0
110	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8	111.9	112.0
115	115.1	115.2	115.3	115.4	115.5	115.6	115.7	115.8	115.9	116.0	116.1	116.2	116.3	116.4	116.5	116.6	116.7	116.8	116.9	117.0
120	120.1	120.2	120.3	120.4	120.5	120.6	120.7	120.8	120.9	121.0	121.1	121.2	121.3	121.4	121.5	121.6	121.7	121.8	121.9	122.0
125	125.1	125.2	125.3	125.4	125.5	125.6	125.7	125.8	125.9	126.0	126.1	126.2	126.3	126.4	126.5	126.6	126.7	126.8	126.9	127.0
130	130.1	130.2	130.3	130.4	130.5	130.6	130.7	130.8	130.9	131.0	131.1	131.2	131.3	131.4	131.5	131.6	131.7	131.8	131.9	132.0
135	135.1	135.2	135.3	135.4	135.5	135.6	135.7	135.8	135.9	136.0	136.1	136.2	136.3	136.4	136.5	136.6	136.7	136.8	136.9	137.0
140	140.1	140.2	140.3	140.4	140.5	140.6	140.7	140.8	140.9	141.0	141.1	141.2	141.3	141.4	141.5	141.6	141.7	141.8	141.9	142.0
145	145.1	145.2	145.3	145.4	145.5	145.6	145.7	145.8	145.9	146.0	146.1	146.2	146.3	146.4	146.5	146.6	146.7	146.8	146.9	147.0
150	150.1	150.2	150.3	150.4	150.5	150.6	150.7	150.8	150.9	151.0	151.1	151.2	151.3	151.4	151.5	151.6	151.7	151.8	151.9	152.0
155	155.1	155.2	155.3	155.4	155.5	155.6	155.7	155.8	155.9	156.0	156.1	156.2	156.3	156.4	156.5	156.6	156.7	156.8	156.9	157.0
160	160.1	160.2	160.3	160.4	160.5	160.6	160.7	160.8	160.9	161.0	161.1	161.2	161.3	161.4	161.5	161.6	161.7	161.8	161.9	162.0
165	165.1	165.2	165.3	165.4	165.5	165.6	165.7	165.8	165.9	166.0	166.1	166.2	166.3	166.4	166.5	166.6	166.7	166.8	166.9	167.0
170	170.1	170.2	170.3	170.4	170.5	170.6	170.7	170.8	170.9	171.0	171.1	171.2	171.3	171.4	171.5	171.6	171.7	171.8	171.9	172.0
175	175.1	175.2	175.3	175.4	175.5	175.6	175.7	175.8	175.9	176.0	176.1	176.2	176.3	176.4	176.5	176.6	176.7	176.8	176.9	177.0
180	180.1	180.2	180.3	180.4	180.5	180.6	180.7	180.8	180.9	181.0	181.1	181.2	181.3	181.4	181.5	181.6	181.7	181.8	181.9	182.0
185	185.1	185.2	185.3	185.4	185.5	185.6	185.7	185.8	185.9	186.0	186.1	186.2	186.3	186.4	186.5	186.6	186.7	186.8	186.9	187.0
190	190.1	190.2	190.3	190.4	190.5	190.6	190.7	190.8	190.9	191.0	191.1	191.2	191.3	191.4	191.5	191.6	191.7	191.8	191.9	192.0
195	195.1	195.2	195.3	195.4	195.5	195.6	195.7	195.8	195.9	196.0	196.1	196.2	196.3	196.4	196.5	196.6	196.7	196.8	196.9	197.0
200	200.1	200.2	200.3	200.4	200.5	200.6	200.7	200.8	200.9	201.0	201.1	201.2	201.3	201.4	201.5	201.6	201.7	201.8	201.9	202.0
205	205.1	205.2	205.3	205.4	205.5	205.6	205.7	205.8	205.9	206.0	206.1	206.2	206.3	206.4	206.5	206.6	206.7	206.8	206.9	207.0
210	210.1	210.2	210.3	210.4	210.5	210.6	210.7	210.8	210.9	211.0	211.1	211.2	211.3	211.4	211.5	211.6	211.7	211.8	211.9	212.0
215	215.1	215.2	215.3	215.4	215.5	215.6	215.7	215.8	215.9	216.0	216.1	216.2	216.3	216.4	216.5	216.6	216.7	216.8	216.9	217.0
220	220.1	220.2	220.3	220.4	220.5	220.6	220.7	220.8	220.9	221.0	221.1	221.2	221.3	221.4	221.5	221.6	221.7	221.8	221.9	222.0
225	225.1	225.2	225.3	225.4	225.5	225.6	225.7	225.8	225.9	226.0	226.1	226.2	226.3	226.4	226.5	226.6	226.7	226.8	226.9	227.0
230	230.1	230.2	230.3	230.4	230.5	230.6	230.7	230.8	230.9	231.0	231.1	231.2	231.3	231.4	231.5	231.6	231.7	231.8	231.9	232.0
235	235.1	235.2	235.3	235.4	235.5	235.6	235.7	235.8	235.9	236.0	236.1	236.2	236.3	236.4	236.5	236.6	236.7	236.8	236.9	237.0
240	240.1	240.2	240.3	240.4	240.5	240.6	240.7	240.8	240.9	241.0	241.1	241.2	241.3	241.4	241.5	241.6	241.7	241.8	241.9	242.0
245	245.1	245.2	245.3	245.4	245.5	245.6	245.7	245.8	245.9	246.0	246.1	246.2	246.3	246.4	246.5	246.6	246.7	246.8	246.9	247.0
250	250.1	250.2	250.3	250.4	250.5	250.6	250.7	250.8	250.9	251.0	251.1	251.2	251.3	251.4	251.5	251.6	251.7	251.8	251.9	252.0
255	255.1	255.2	255.3	255.4	255.5	255.6	255.7	255.8	255.9	256.0	256.1	256.2	256.3	256.4	256.5	256.6	256.7	256.8	256.9	257.0
260	260.1	260.2	260.3	260.4	260.5	260.6	260.7	260.8	260.9	261.0	261.1	261.2	261.3	261.4	261.5	261.6	261.7	261.8	261.9	262.0
265	265.1	265.2	265.3	265.4	265.5	265.6	265.7	265.8	265.9	266.0	266.1	266.2	266.3	266.4	266.5	266.6	266.7	266.8	266.9	267.0
270	270.1	270.2	270.3	270.4	270.5	270.6	270.7	270.8	270.9	271.0	271.1	271.2	271.3	271.4	271.5	271.6	271.7	271.8	271.9	272.0
275	275.1	275.2	275.3	275.4	275.5	275.6	275.7	275.8	275.9	276.0	276.1	276.2	276.3	276.4	276.5	276.6	276.7	276.8	276.9	277.0
280	280.1	280.2	280.3	280.4	280.5	280.6	280.7	280.8	280.9	281.0	281.1	281.2	281.3	281.4	281.5	281.6	281.7	281.8	281.9	282.0
285	285.1	285.2	285.3	285.4	285.5	285.6	285.7	285.8	285.9	286.0	286.1	286.2	286.3	286.4	286.5	286.6	286.7	286.8	286.9	287.0
290	290.1	290.2	290.3	290.4	290.5	290.6	290.7	290.8	290.9	291.0	291.1	291.2	291.3	291.4	291.5	291.6	291.7	291.8	291.9	292.0
295	295.1	295.2	295.3	295.4	295.5	295.6	295.7	295.8	295.9	296.0	296.1	296.2	296.3	296.4	296.5	296.6	296.7	296.8	296.9	297.0
300	300.1	300.2	300.3	300.4	300.5	300.6	300.7	300.8	300.9	301.0	301.1	301.2	301.3	301.4	301.5	301.6	301.7	301.8	301.9	302.0
305	305.1	305.2	305.3	305.4	305.5	305.6	305.7	305.8	305.9	306.0	306.1	306.2	306.3	306.4	306.5	306.6	306.7	306.8	306.9	307.0
310	310.1	310.2	310.3	310.4	310.5	310.6	310.7	310.8	310.9	311.0	311.1	311.2	311.3	311.4	311.5	311.6	311.7	311.8	311.9	312.0
315	315.1	315.2	315.3	315.4	315.5	315.6	315.7	315.8	315.9	316.0	316.1	316.2	316.3	316.4	316.5	316.6	316.7	316.8	316.9	317.0
320	320.1	320.2	320.3	320.4	320.5	320.6	320.7	320.8	320.9	321.0	321.1	321.2	321.3	321.4	321.5	321.6	321.7	321.8	321.9	322.0
325	325.1	325.2	325.3	325.4	325.5	325.6	325.7	325.8	325.9	326.0	326.1	326.2	326.3	326.4	326.5	326.6	326.7	326.8	326.9	327.0
330	330.1	330.2	330.3	330.4	330.5	330.6	330.7	330.8	330.9	331.0	331.1	331.2	331.3	331.4	331.5	331.6	331.7	331.8	331.9	332.0
335	335.1	335.2	335.3	335.4	335.5	335.6	335.7	335.8	335.9	336.0	336.1	336.2	336.3	336.4	336.5	336.6	336.7	336.8	336.9	337.0
340	340.1	340.2	340.3	340.4	340.5	340.6	340.7	340.8	340.9	341.0	341.1	3								



GLOBAL CLIMATOLOGY BRANCH  
USAFITAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN LSCR

PERIOD OF RECORD: 78-87  
MONTH: JUL YEAR(S): 2100-7100

CEILING IN FEET	1	VISIBILITY IN STATUTE MILES						VISIBILITY IN STATUTE MILES									
		GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
		10	5	3	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0			
NO CTEL	1	.7	59.5	59.5	59.5	59.8	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
GE 20000	1	.7	63.7	63.7	63.7	64.1	65.4	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 16000	1	.7	63.7	63.7	63.7	64.1	65.4	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 14000	1	.7	63.7	63.7	63.7	64.1	65.4	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 12000	1	.7	63.7	63.7	63.7	64.1	65.4	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
GE 10000	1	.7	79.1	79.1	79.1	80.4	82.0	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 9000	1	.7	79.1	79.1	79.1	80.4	82.0	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 8000	1	.7	79.1	79.1	79.1	80.4	82.0	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 7000	1	.7	79.1	79.1	79.1	80.4	82.0	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 6000	1	.7	79.1	79.1	79.1	80.4	82.0	82.0	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
GE 5000	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 4500	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 4000	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 3500	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 3000	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 2500	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 2000	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1800	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1600	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1400	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1200	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 1000	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 900	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 800	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 700	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 600	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 500	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 400	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 300	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 200	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 100	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 0	1	.7	82.7	82.7	82.7	84.3	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3

TOTAL NUMBER OF OBSERVATIONS: 706



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/INAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27395 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUL FOURS(EST): ALL

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET		GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL	1	.7	51.5	51.6	51.5	52.1	53.3	53.4	53.6	54.1	54.2	54.3	54.3	54.4	54.5	54.5	54.6
GE 20000	1	.7	54.3	54.4	54.4	54.9	56.2	56.3	56.6	57.1	57.2	57.2	57.3	57.4	57.4	57.4	57.7
GE 18000	1	.7	54.3	54.4	54.4	54.9	56.2	56.3	56.6	57.1	57.2	57.2	57.3	57.4	57.4	57.4	57.7
GE 16000	1	.7	54.3	54.4	54.4	54.9	56.2	56.3	56.6	57.1	57.2	57.2	57.3	57.4	57.4	57.4	57.7
GE 14000	1	.7	54.3	54.4	54.4	54.9	56.2	56.3	56.6	57.1	57.2	57.2	57.3	57.4	57.4	57.4	57.7
GE 12000	1	.7	54.3	54.4	54.4	54.9	56.2	56.3	56.6	57.1	57.2	57.2	57.3	57.4	57.4	57.4	57.7
GE 10000	1	.9	64.5	64.6	64.7	69.5	71.5	71.6	72.0	72.5	72.6	72.7	72.7	72.8	72.9	72.9	73.2
GE 9000	1	.9	64.5	64.6	64.7	69.5	71.5	71.6	72.0	72.5	72.6	72.7	72.7	72.8	72.9	72.9	73.2
GE 8000	1	.9	64.5	64.6	64.7	69.5	71.5	71.6	72.0	72.5	72.6	72.7	72.7	72.8	72.9	72.9	73.2
GE 7000	1	.8	64.5	64.6	64.7	69.5	71.5	71.6	72.0	72.5	72.6	72.7	72.7	72.8	72.9	72.9	73.2
GE 6000	1	.9	69.1	69.2	69.2	73.1	72.0	72.1	72.5	73.1	73.2	73.2	73.3	73.4	73.4	73.4	73.7
GE 5000	1	.9	73.5	73.6	73.7	74.7	76.7	76.8	77.2	77.8	77.9	78.0	78.0	78.1	78.2	78.2	78.4
GE 4500	1	.9	73.5	73.6	73.7	74.7	76.7	76.8	77.2	77.8	77.9	78.0	78.0	78.1	78.2	78.2	78.4
GE 4000	1	.9	81.3	81.3	81.3	82.5	84.7	84.8	85.2	85.8	85.9	86.0	86.0	86.1	86.2	86.2	86.5
GE 3500	1	.9	81.3	81.3	81.3	82.5	84.7	84.8	85.2	85.8	85.9	86.0	86.0	86.1	86.2	86.2	86.5
GE 3000	1	.9	82.9	83.0	83.2	84.2	86.5	86.6	87.0	87.6	87.7	87.8	87.8	88.0	88.1	88.1	88.3
GE 2500	1	.9	86.0	86.1	86.3	87.2	89.7	89.8	90.2	90.9	91.0	91.1	91.1	91.3	91.4	91.4	91.7
GE 2000	1	.9	87.4	87.5	87.7	88.7	91.4	91.5	91.9	92.6	92.7	92.8	92.8	93.0	93.1	93.1	93.3
GE 1800	1	.9	87.4	87.5	87.7	88.7	91.4	91.5	91.9	92.6	92.7	92.8	92.8	93.0	93.1	93.1	93.3
GE 1600	1	.9	89.8	89.8	89.9	90.1	92.8	92.9	93.3	94.0	94.1	94.2	94.2	94.4	94.5	94.5	94.7
GE 1400	1	.9	92.6	92.7	92.9	93.9	94.8	95.0	95.3	96.1	96.2	96.3	96.3	96.5	96.6	96.6	96.9
GE 1200	1	.9	91.4	91.5	91.7	92.9	95.9	96.1	96.4	97.4	97.4	97.5	97.5	97.7	97.8	97.8	98.1
GE 1000	1	.9	91.4	91.5	91.7	92.9	95.9	96.1	96.4	97.4	97.4	97.5	97.5	97.7	97.8	97.8	98.1
GE 900	1	.9	91.4	91.5	91.7	92.9	95.9	96.1	96.4	97.4	97.4	97.5	97.5	97.7	97.8	97.8	98.1
GE 800	1	.9	91.4	91.5	91.7	92.9	95.9	96.1	96.4	97.4	97.4	97.5	97.5	97.7	97.8	97.8	98.1
GE 700	1	.9	91.4	91.5	91.7	92.9	95.9	96.1	96.4	97.4	97.4	97.5	97.5	97.7	97.8	97.8	98.1
GE 600	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1
GE 500	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1
GE 450	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1
GE 400	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1
GE 350	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1
GE 300	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1
GE 250	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1
GE 200	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1
GE 150	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1
GE 100	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1
GE 50	1	.9	92.0	92.1	92.3	93.5	96.8	96.9	97.3	98.3	98.4	98.5	98.5	98.7	98.8	98.8	99.1

TOTAL NUMBER OF OBSERVATIONS: 2418



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(LST): 0000-0200

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	1	GE 1/4	GE 1/2	GE 3/4	GE 1	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/4	GE 2 1/2	GE 2 3/4	GE 3	GE 3 1/4	GE 3 1/2	GE 3 3/4	
NO CEIL	1		61.1	61.1	61.1	61.5	62.8	62.8	62.8	63.4	63.6	63.7	63.8	63.9	64.1	64.1	64.1
GE 20000			61.6	61.6	61.6	62.1	63.5	63.5	63.5	64.5	64.5	64.5	64.5	64.5	64.8	64.8	64.8
GE 18000			61.6	61.6	61.6	62.1	63.5	63.5	63.5	64.5	64.5	64.5	64.5	64.5	64.8	64.8	64.8
GE 16000			61.6	61.6	61.6	62.1	63.5	63.5	63.5	64.5	64.5	64.5	64.5	64.5	64.8	64.8	64.8
GE 14000			61.6	61.6	61.6	62.1	63.5	63.5	63.5	64.5	64.5	64.5	64.5	64.5	64.8	64.8	64.8
GE 12000			61.6	61.6	61.6	62.1	63.5	63.5	63.5	64.5	64.5	64.5	64.5	64.5	64.8	64.8	64.8
GE 10000			77.1	77.1	77.1	77.7	80.4	80.7	80.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.1
GE 9000			77.1	77.1	77.1	77.7	80.4	80.7	80.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.1
GE 8000			77.1	77.1	77.1	77.7	80.4	80.7	80.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.1
GE 7000			77.1	77.1	77.1	77.7	80.4	80.7	80.7	81.7	81.7	81.7	81.7	81.7	82.1	82.1	82.1
GE 6000			77.1	77.1	77.1	77.7	80.4	81.1	81.1	82.1	82.1	82.1	82.1	82.1	82.4	82.4	82.4
GE 5000			79.7	79.7	79.7	79.7	83.1	83.1	83.1	84.1	84.1	84.1	84.1	84.1	84.4	84.4	84.4
GE 4000			79.7	79.7	79.7	79.7	83.1	83.7	83.7	84.7	84.7	84.7	84.7	84.7	85.0	85.0	85.0
GE 3000			82.7	82.7	82.7	83.4	86.7	87.0	87.0	88.4	88.4	88.4	88.4	88.4	88.7	88.7	88.7
GE 2000			84.4	84.4	84.4	85.0	88.4	88.7	88.7	90.0	90.0	90.0	90.0	90.0	90.4	90.4	90.4
GE 1000			85.7	85.7	85.7	86.4	89.7	90.4	90.4	91.7	91.7	91.7	91.7	91.7	92.0	92.0	92.0
GE 25000	.3		86.4	86.4	86.4	87.0	90.4	91.0	91.0	92.7	92.7	92.7	92.7	92.7	93.0	93.0	93.0
GE 20000	.3		87.0	87.0	87.0	87.7	91.0	91.7	91.7	93.4	93.4	93.4	93.4	93.4	93.7	93.7	93.7
GE 18000	.3		87.0	87.0	87.0	87.7	91.0	91.7	91.7	93.4	93.4	93.4	93.4	93.4	93.7	93.7	93.7
GE 16000	.3		87.7	87.7	87.7	88.4	91.7	92.4	92.4	93.4	93.4	93.4	93.4	93.4	93.7	93.7	93.7
GE 14000	.3		88.4	88.4	88.4	89.0	92.4	93.0	93.0	94.7	94.7	94.7	94.7	94.7	95.0	95.0	95.0
GE 12000	.3		89.0	89.0	89.0	89.7	93.0	93.7	93.7	95.0	95.0	95.0	95.0	95.0	95.3	95.3	95.3
GE 10000	.3		89.7	89.7	89.7	90.4	93.7	94.3	94.3	95.7	95.7	95.7	95.7	95.7	96.0	96.0	96.0
GE 9000	.3		89.7	89.7	89.7	90.4	93.7	94.3	94.3	95.7	95.7	95.7	95.7	95.7	96.0	96.0	96.0
GE 8000	.3		89.7	89.7	89.7	90.4	93.7	94.3	94.3	95.7	95.7	95.7	95.7	95.7	96.0	96.0	96.0
GE 7000	.3		89.7	89.7	89.7	90.4	93.7	94.3	94.3	95.7	95.7	95.7	95.7	95.7	96.0	96.0	96.0
GE 6000	.3		89.7	89.7	89.7	90.4	93.7	94.3	94.3	95.7	95.7	95.7	95.7	95.7	96.0	96.0	96.0
GE 5000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 4000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 3000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 2000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 1000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 25000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 20000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 18000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 16000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 14000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 12000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 10000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 9000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 8000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 7000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 6000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 5000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 4000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 3000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 2000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 1000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 25000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 20000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 18000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 16000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 14000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 12000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 10000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 9000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 8000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 7000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 6000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 5000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 4000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 3000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 2000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 1000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 25000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 20000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 18000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 16000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 14000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 12000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 10000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 9000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 8000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 7000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 6000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 5000	.3		91.0	91.0	91.0	91.5	92.4	92.4	92.4	93.7	93.7	93.7	93.7	93.7	94.3	94.3	94.3
GE 4000</																	

TOTAL NUMBER OF OBSERVATIONS: 311



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(DST): 0300-0500

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE 1/8	GE 1/4	GE 3/8	GE 1/2	GE 3/4	GE 1	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/4	GE 2 1/2	GE 2 3/4	GE 3	GE 3 1/4	GE 3 1/2	GE 3 3/4
NO CEIL 1		51.5	51.5	51.5	52.5	55.1	55.1	55.5	56.4	56.6	57.1	57.1	57.1	57.5	57.8	58.1	
GE 20000		53.5	53.5	53.5	54.8	57.8	57.8	58.5	59.4	59.5	59.9	59.9	59.9	60.2	60.5	60.8	
GE 18000		53.5	53.5	53.5	54.8	57.8	57.8	58.5	59.5	59.5	59.9	59.9	59.9	60.1	60.5	60.8	
GE 16000		53.5	53.5	53.5	54.8	57.8	57.8	58.5	59.5	59.5	59.9	59.9	59.9	60.1	60.5	60.8	
GE 14000		53.5	53.5	53.5	54.8	57.8	57.8	58.5	59.5	59.5	59.9	59.9	59.9	60.1	60.5	60.8	
GE 12000		53.5	53.5	53.5	54.8	57.8	57.8	58.5	59.5	59.5	59.9	59.9	59.9	60.1	60.5	60.8	
GE 10000		65.5	65.5	65.5	67.4	72.1	72.4	73.4	74.4	74.4	74.8	74.8	74.8	75.1	75.4	75.7	
GE 9000		65.5	65.5	65.5	67.4	72.1	72.4	73.4	74.4	74.4	74.8	74.8	74.8	75.1	75.4	75.7	
GE 8000		65.5	65.5	65.5	67.4	72.1	72.4	73.4	74.4	74.4	74.8	74.8	74.8	75.1	75.4	75.7	
GE 7000		65.5	65.5	65.5	67.4	72.1	72.4	73.4	74.4	74.4	74.8	74.8	74.8	75.1	75.4	75.7	
GE 6000		66.1	66.1	66.1	67.8	72.4	72.8	73.6	74.8	74.8	75.4	75.4	75.4	75.7	76.1	76.4	
GE 5000		69.1	69.1	69.1	70.8	75.4	75.7	76.7	77.7	77.7	78.4	78.4	78.4	78.7	79.1	79.4	
GE 4500		69.5	69.5	69.5	71.4	76.7	77.1	78.1	79.1	79.1	79.7	79.7	79.7	79.7	80.4	80.7	
GE 4000		72.1	72.1	72.1	74.8	80.7	80.7	81.7	82.4	82.4	83.4	83.4	83.4	84.1	84.7	85.0	
GE 3500		73.4	73.4	73.4	75.1	80.7	81.1	82.1	83.7	83.7	84.4	84.4	84.4	84.7	85.0	85.4	
GE 3000		73.4	73.4	73.4	75.1	81.4	81.7	82.7	84.4	84.4	85.7	85.7	85.7	85.7	86.7	87.0	
GE 2500		74.1	74.1	74.1	75.7	82.1	82.4	83.4	85.0	85.0	85.7	85.7	85.7	86.0	86.4	86.7	
GE 2000		76.4	76.4	76.4	78.4	84.4	84.7	85.7	87.4	87.4	88.4	88.4	88.4	88.7	89.0	89.4	
GE 1800		76.7	76.7	76.7	78.4	84.7	85.0	86.0	87.7	87.7	88.7	88.7	88.7	89.0	89.4	89.7	
GE 1600		77.4	77.4	77.4	79.1	85.7	86.0	87.0	88.7	88.7	89.7	89.7	89.7	90.0	90.4	90.7	
GE 1400		77.4	77.4	77.4	79.1	85.7	86.0	87.0	88.7	88.7	89.7	89.7	89.7	90.0	90.4	90.7	
GE 1200		80.4	80.4	80.4	82.4	90.0	90.4	91.7	94.0	94.0	94.0	94.0	94.0	95.3	95.7	96.0	
GE 1000		80.4	80.4	80.4	82.4	90.0	90.4	91.7	94.0	94.0	94.0	94.0	94.0	95.3	95.7	96.0	
GE 800		80.4	80.4	80.4	82.4	90.0	90.4	91.7	94.0	94.0	94.0	94.0	94.0	95.3	95.7	96.0	
GE 700		81.1	81.1	81.1	83.1	91.4	91.7	92.0	93.0	93.0	93.3	93.3	93.3	93.3	93.7	94.0	
GE 600		81.1	81.1	81.1	83.1	91.7	92.0	92.0	94.0	94.0	94.0	94.0	94.0	94.0	94.3	94.7	
GE 500		81.1	81.1	81.1	83.1	91.7	92.0	92.0	94.0	94.0	94.0	94.0	94.0	94.0	94.3	94.7	
GE 400		81.1	81.1	81.1	83.1	91.7	92.0	92.0	94.0	94.0	94.0	94.0	94.0	94.0	94.3	94.7	
GE 300		81.1	81.1	81.1	83.1	91.7	92.0	92.0	94.0	94.0	94.0	94.0	94.0	94.0	94.3	94.7	
GE 200		81.1	81.1	81.1	83.1	91.7	92.0	92.0	94.0	94.0	94.0	94.0	94.0	94.0	94.3	94.7	
GE 100		81.1	81.1	81.1	83.1	91.7	92.0	92.0	94.0	94.0	94.0	94.0	94.0	94.0	94.3	94.7	
GE 0		81.1	81.1	81.1	83.1	91.7	92.0	92.0	94.0	94.0	94.0	94.0	94.0	94.0	94.3	94.7	

TOTAL NUMBER OF OBSERVATIONS: 2.1



GLOBAL CLIMATOLOGY BRANCH  
USAF/CLAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(UT): 0600-0800

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEIL	41.0	41.0	41.0	41.7	48.0	48.0	48.3	50.7	50.7	51.0	51.0	51.0	51.3	51.3	52.7	
GE 2000	43.0	43.0	43.0	43.7	50.0	50.0	50.3	52.7	52.7	53.0	53.0	53.0	53.3	53.3	54.7	
GE 1800	43.0	43.0	43.0	43.7	50.0	50.0	50.3	52.7	52.7	53.0	53.0	53.0	53.3	53.3	54.7	
GE 1600	43.0	43.0	43.0	43.7	50.0	50.0	50.3	52.7	52.7	53.0	53.0	53.0	53.3	53.3	54.7	
GE 1400	43.0	43.0	43.0	43.7	50.0	50.0	50.3	52.7	52.7	53.0	53.0	53.0	53.3	53.3	54.7	
GE 1200	43.0	43.0	43.0	43.7	50.0	50.0	50.3	52.7	52.7	53.0	53.0	53.0	53.3	53.3	54.7	
GE 1000	58.3	58.3	58.3	59.0	67.3	67.3	68.3	71.3	71.3	71.7	71.7	71.7	72.3	72.3	73.7	
GE 900	58.3	58.3	58.3	59.0	67.3	67.3	68.3	71.3	71.3	71.7	71.7	71.7	72.3	72.3	73.7	
GE 800	58.3	58.3	58.3	59.0	67.3	67.3	68.3	71.3	71.3	71.7	71.7	71.7	72.3	72.3	73.7	
GE 700	58.3	58.3	58.3	59.0	67.3	67.3	68.3	71.3	71.3	71.7	71.7	71.7	72.3	72.3	73.7	
GE 600	58.3	58.3	58.3	59.0	67.3	67.3	68.3	71.3	71.3	71.7	71.7	71.7	72.3	72.3	73.7	
GE 500	60.7	60.7	60.7	61.3	69.7	69.7	70.7	74.0	74.0	74.3	74.7	74.7	75.3	75.3	76.7	
GE 400	61.7	61.7	61.7	62.3	70.7	70.7	71.7	75.0	75.0	75.3	75.7	75.7	76.3	76.3	77.7	
GE 300	65.7	65.7	65.7	66.3	74.7	74.7	76.0	79.3	79.3	79.7	80.0	80.0	80.7	80.7	82.0	
GE 200	66.7	66.7	66.7	67.3	75.0	75.0	76.3	79.7	79.7	80.0	80.3	80.3	81.0	81.0	82.3	
GE 100	66.7	66.7	66.7	67.3	75.7	75.7	77.0	80.3	80.3	80.7	81.0	81.0	81.7	81.7	83.0	
GE 2500	69.3	69.3	69.3	69.7	77.3	77.3	78.7	82.0	82.0	82.3	82.7	82.7	83.3	83.3	84.7	
GE 2000	70.3	70.3	70.3	71.3	79.7	79.7	81.3	84.7	84.7	85.0	85.3	85.3	86.0	86.0	87.3	
GE 1800	70.7	70.7	70.7	71.7	80.0	80.0	81.7	85.0	85.0	85.3	85.7	85.7	86.3	86.3	87.7	
GE 1600	71.0	71.0	71.0	72.0	80.3	80.3	82.3	85.7	85.7	86.0	86.3	86.3	87.0	87.0	88.3	
GE 1400	73.0	73.0	73.0	75.0	83.3	83.3	85.3	88.7	88.7	89.0	89.3	89.3	90.0	90.0	91.3	
GE 1200	75.0	75.0	75.0	76.7	85.3	85.3	87.3	91.0	91.0	91.3	92.0	92.0	92.7	92.7	94.0	
GE 1000	75.0	75.0	75.0	76.7	85.3	85.3	87.3	91.0	91.0	91.3	92.0	92.0	92.7	92.7	94.0	
GE 900	75.3	75.3	75.3	77.0	85.7	85.7	87.7	91.3	91.3	91.7	92.3	92.3	93.0	93.0	94.7	
GE 800	75.7	75.7	75.7	77.3	86.0	86.0	88.0	92.0	92.0	92.3	93.0	93.0	93.7	93.7	95.3	
GE 700	76.0	76.0	76.0	78.0	86.7	86.7	88.7	93.3	93.3	93.7	94.2	94.2	94.7	94.7	96.7	
GE 600	76.3	76.3	76.3	78.3	87.0	87.0	89.3	94.3	94.3	94.7	95.3	95.3	96.0	96.0	97.7	
GE 500	76.7	76.7	76.7	79.7	87.7	87.7	90.3	95.7	95.7	96.0	96.7	96.7	97.3	97.3	99.0	
GE 400	76.7	76.7	76.7	79.7	87.7	87.7	90.3	96.0	96.0	96.3	97.0	97.0	97.7	97.7	99.3	
GE 300	76.7	76.7	76.7	79.7	87.7	87.7	90.3	96.0	96.0	96.3	97.0	97.0	97.7	97.7	99.3	
GE 200	76.7	76.7	76.7	79.7	87.7	87.7	90.3	96.0	96.0	96.3	97.0	97.0	97.7	97.7	99.3	
GE 100	76.7	76.7	76.7	79.7	87.7	87.7	90.3	96.0	96.0	96.3	97.0	97.0	97.7	97.7	99.3	
GE 0	76.7	76.7	76.7	79.7	87.7	87.7	90.3	96.0	96.0	96.3	97.0	97.0	97.7	97.7	99.3	

TOTAL NUMBER OF OBSERVATIONS: 300



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: AUG      FOURS (LAST): 0900-1100

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 24



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

FILED OF RECORD: 78-87

MONTH: ALL HOURS (LST): 1200-1400

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 226



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 75-87  
MONTH: AUG FOURS (LST): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	1 1/2	2	2 1/2	3	4	5	6	7	8	9	10	11	12	13	14
NO CEIL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 3000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 2400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 900	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 700	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 300	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 900	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 700	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 300	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TOTAL NUMBER OF OBSERVATIONS: 296



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

FILE NO OF IFCORD: 78-87

MOBILE: AUG      HOURS (LST): 1800-2000

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 305



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: AUG HOURS(DAYS): 2100-2300

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 72



PERCENTAGE FREQUENCY OF OCCURRENCE OF CHILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

FILED IN RECORD: 78-87  
NOTE: ALL HOURS (LST): ALL

DEPTH		VISIBILITY IN STATUTE MILES																	
FEET		GE	GF	GE	GF	GE	GF	GE	GF	GE	GF	GE	GF	GE	GF	GE	GF	GE	GF
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
60	60.0	1.0	60.1	60.2	60.3	60.4	60.5	60.6	60.7	60.8	60.9	61.0	61.1	61.2	61.3	61.4	61.5	61.6	61.7
GE	20.000	1.0	61.2	61.3	61.4	61.5	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8
GE	19.000	1.0	61.3	61.4	61.5	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9
GE	18.000	1.0	61.4	61.5	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0
GE	17.000	1.0	61.5	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1
GE	16.000	1.0	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2
GE	15.000	1.0	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3
GE	14.000	1.0	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4
GE	13.000	1.0	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5
GE	12.000	1.0	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6
GE	11.000	1.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7
GE	10.000	1.0	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8
GE	9.000	1.0	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9
GE	8.000	1.0	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0
GE	7.000	1.0	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1
GE	6.000	1.0	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2
GE	5.000	1.0	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3
GE	4.000	1.0	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4
GE	3.000	1.0	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5
GE	2.000	1.0	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6
GE	1.000	1.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7
GE	0.000	1.0	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8
GE	0.000	1.0	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9
GE	0.000	1.0	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0
GE	0.000	1.0	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1
GE	0.000	1.0	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2
GE	0.000	1.0	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3
GE	0.000	1.0	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4
GE	0.000	1.0	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5
GE	0.000	1.0	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6
GE	0.000	1.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7
GE	0.000	1.0	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8
GE	0.000	1.0	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9
GE	0.000	1.0	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0
GE	0.000	1.0	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1
GE	0.000	1.0	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2
GE	0.000	1.0	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3
GE	0.000	1.0	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4
GE	0.000	1.0	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5
GE	0.000	1.0	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6
GE	0.000	1.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7
GE	0.000	1.0	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8
GE	0.000	1.0	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9
GE	0.000	1.0	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0
GE	0.000	1.0	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1
GE	0.000	1.0	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2
GE	0.000	1.0	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3
GE	0.000	1.0	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4
GE	0.000	1.0	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5
GE	0.000	1.0	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6
GE	0.000	1.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7
GE	0.000	1.0	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8
GE	0.000	1.0	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9
GE	0.000	1.0	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0
GE	0.000	1.0	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1
GE	0.000	1.0	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2
GE	0.000	1.0	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3
GE	0.000	1.0	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4
GE	0.000	1.0	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5
GE	0.000	1.0	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6
GE	0.000	1.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7
GE	0.000	1.0	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7	68.8
GE	0.000	1.0	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7	68.8	68.9
GE	0.000	1.0	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7	68.8	68.9	69.0
GE	0.000	1.0	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7	68.8	68.9	69.0	69.1
GE	0.000	1.0	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7	68.8	68.9	69.0	69.1	69.2
GE	0.000	1.0	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7	68.8	68.9				

TOTAL NUMBER OF OBSERVATIONS: 2402



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 79-87  
MONTH: SEP HOURS(L): 0000-0200

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 24



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27555 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 74-87  
MONTH: SEP HOURS(EST): 0300-0500

CEILING IN FEET	1	GE	GE	GE	GE	GE	GE	VISIBILITY IN STATUTE MILES									
								GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
		1	2	3	4	5	6	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0
NO CEIL	1	47	35.3	35.3	35.3	37.0	41.2	41.2	41.2	41.5	41.9	42.2	42.2	42.6	43.3	43.6	43.9
GE 2000	1	47	36.0	36.0	36.0	37.7	41.9	41.9	41.9	42.2	42.6	42.6	42.9	43.3	43.9	44.3	44.6
GE 1500	1	47	36.0	36.0	36.0	37.7	41.9	41.9	41.9	42.2	42.6	42.6	42.9	43.3	43.9	44.3	44.6
GE 1000	1	47	36.0	36.0	36.0	37.7	41.9	41.9	41.9	42.2	42.6	42.6	42.9	43.3	43.9	44.3	44.6
GE 800	1	47	36.0	36.0	36.0	37.7	41.9	41.9	41.9	42.2	42.6	42.6	42.9	43.3	43.9	44.3	44.6
GE 600	1	47	36.0	36.0	36.0	37.7	41.9	41.9	41.9	42.2	42.6	42.6	42.9	43.3	43.9	44.3	44.6
GE 400	1	47	54.3	54.3	54.3	56.4	61.6	61.6	61.9	62.6	63.0	63.3	63.7	64.4	64.7	65.1	65.4
GE 300	1	47	54.3	54.3	54.3	56.4	61.6	61.6	61.9	62.6	63.0	63.3	63.7	64.4	64.7	65.1	65.4
GE 200	1	47	54.3	54.3	54.3	56.4	61.6	61.6	61.9	62.6	63.0	63.3	63.7	64.4	64.7	65.1	65.4
GE 100	1	47	54.3	54.3	54.3	56.4	61.6	61.6	61.9	62.6	63.0	63.3	63.7	64.4	64.7	65.1	65.4
GE 50	1	47	55.7	55.7	55.7	57.8	63.3	63.3	63.7	64.4	64.7	65.1	65.4	65.7	66.4	66.8	67.1
GE 30	1	47	55.7	55.7	55.7	57.8	63.3	63.3	63.7	64.4	64.7	65.1	65.4	65.7	66.4	66.8	67.1
GE 20	1	47	57.8	57.8	57.8	60.2	65.7	65.7	66.1	66.9	67.1	67.5	67.5	67.8	68.5	68.9	69.2
GE 10	1	47	57.8	57.8	57.8	60.2	65.7	65.7	66.1	66.9	67.1	67.5	67.5	67.8	68.5	68.9	69.2
GE 5	1	47	57.8	57.8	57.8	60.2	65.7	65.7	66.1	66.9	67.1	67.5	67.5	67.8	68.5	68.9	69.2
GE 0	1	47	57.8	57.8	57.8	60.2	65.7	65.7	66.1	66.9	67.1	67.5	67.5	67.8	68.5	68.9	69.2
GE 2500	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 2000	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 1500	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 1000	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 800	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 600	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 400	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 300	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 200	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 100	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 50	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 30	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 20	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 10	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 5	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 0	1	47	63.3	63.3	63.3	66.1	72.3	72.3	73.4	74.0	74.4	74.7	74.7	75.1	75.8	76.1	76.5
GE 2500	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 2000	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 1500	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 1000	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 800	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 600	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 400	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 300	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 200	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 100	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 50	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 30	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 20	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 10	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 5	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2
GE 0	1	47	72.3	72.3	72.3	76.5	87.4	87.4	88.4	89.3	90.3	91.7	92.7	93.4	94.5	94.8	95.2

TOTAL NUMBER OF OBSERVATIONS: 259



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-67  
MORPH: SET HOURS (LST): 0607-0800

CELLING		VISIBILITY IN STATUTE MILES															
IN	FEET	GE 1/8	GE 1/4	GE 3/8	GE 1/2	GE 3/4	GE 1	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/4	GE 2 1/2	GE 2 3/4	GE 3	GE 3 1/4	GE 3 1/2
NO	CELL	1	3	24.0	24.0	24.0	24.3	24.6	24.0	27.4	28.5	28.5	28.5	28.5	28.5	28.5	28.5
GE	20000	3	24.0	24.0	24.0	24.7	27.4	27.4	28.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE	18000	3	24.0	24.0	24.3	24.7	27.4	27.4	28.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE	16000	3	24.0	24.0	24.3	24.7	27.4	27.4	28.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE	14000	3	24.0	24.0	24.0	24.7	27.4	27.4	28.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE	12000	3	24.0	24.0	24.0	24.7	27.4	27.4	28.8	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE	10000	3	41.3	41.7	41.7	43.1	50.3	50.3	52.8	55.2	55.6	57.3	58.0	58.0	58.7	58.7	60.1
GE	9000	3	41.3	41.7	41.7	43.1	50.3	50.3	52.8	55.2	55.6	57.3	58.0	58.0	58.7	58.7	60.1
GE	8000	3	41.3	41.7	41.7	43.1	50.3	50.3	52.8	55.2	55.6	57.3	58.0	58.0	58.7	58.7	60.1
GE	7000	3	41.3	41.7	41.7	43.1	50.3	50.3	52.8	55.2	55.6	57.3	58.0	58.0	58.7	58.7	60.1
GE	6000	3	41.3	41.7	41.7	43.1	50.3	50.3	52.8	55.2	55.6	57.3	58.0	58.0	58.7	58.7	60.1
GE	5000	3	43.8	44.1	44.1	45.6	52.1	53.1	55.6	58.0	58.3	60.1	60.6	60.8	61.5	61.5	62.8
GE	4000	3	43.8	44.1	44.1	45.6	47.2	54.5	54.5	56.9	59.4	59.7	61.5	62.2	62.2	62.8	64.2
GE	3000	3	47.0	47.5	47.5	47.9	57.3	57.3	59.7	62.2	62.5	64.2	64.9	64.9	65.6	65.6	67.0
GE	2000	3	48.3	48.6	48.6	48.6	57.3	58.0	60.8	63.2	63.5	65.3	66.0	66.0	66.7	66.7	68.1
GE	1000	3	49.0	49.3	49.3	51.0	56.7	58.7	61.5	64.2	64.6	67.3	67.0	67.0	67.7	67.7	69.1
GE	20000	3	50.7	51.0	51.0	53.1	61.1	61.1	63.9	66.7	67.0	68.3	67.4	69.4	70.1	70.1	71.5
GE	18000	3	50.2	50.5	50.5	52.9	60.0	60.0	62.8	65.5	65.9	67.4	67.3	69.3	70.0	70.0	71.4
GE	16000	3	50.6	50.9	50.9	53.3	61.4	61.4	64.2	66.9	67.3	68.8	68.7	70.7	71.4	71.4	72.8
GE	14000	3	50.6	50.9	50.9	53.4	61.4	61.4	64.2	66.9	67.3	68.8	68.7	70.7	71.4	71.4	72.8
GE	12000	3	50.6	50.9	50.9	53.4	61.4	61.4	64.2	66.9	67.3	68.8	68.7	70.7	71.4	71.4	72.8
GE	10000	3	61.4	61.4	61.4	64.6	74.3	74.3	77.8	80.9	81.3	83.0	83.7	84.0	84.7	84.7	86.1
GE	9000	3	61.4	61.4	61.4	64.6	74.3	74.3	77.8	80.9	81.3	83.0	83.7	84.0	84.7	84.7	86.1
GE	8000	3	61.4	61.4	61.4	64.6	74.3	74.3	77.8	80.9	81.3	83.0	83.7	84.0	84.7	84.7	86.1
GE	7000	3	61.4	61.4	61.4	64.6	74.3	74.3	77.8	80.9	81.3	83.0	83.7	84.0	84.7	84.7	86.1
GE	6000	3	61.4	61.4	61.4	64.6	74.3	74.3	77.8	80.9	81.3	83.0	83.7	84.0	84.7	84.7	86.1
GE	5000	3	65.2	65.6	65.6	65.6	69.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE	4000	3	65.2	65.6	65.6	65.6	69.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE	3000	3	65.2	65.6	65.6	65.6	69.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE	2000	3	65.2	65.6	65.6	65.6	69.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE	1000	3	65.2	65.6	65.6	65.6	69.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
GE	0	3	65.2	65.6	65.6	65.6	69.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6

TOTAL NUMBER OF OBSERVATIONS: 256



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MTC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: MAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS(IST): 0900-1100

CEILING IN FEET	1	FE 10	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16	GE 17	GE 18	GE 19	GE 20
NO CEIL	1		19.9	27.9	29.9	31.3	32.6	32.6	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
GE 0000			19.9	35.1	35.1	35.1	36.4	37.8	37.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 1000			19.9	35.1	35.1	35.1	36.4	37.8	37.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 1400			19.9	35.1	35.1	35.1	36.4	37.8	37.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 1800			19.9	35.1	35.1	35.1	36.4	37.8	37.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 2200			19.9	35.1	35.1	35.1	36.4	37.8	37.8	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 0000	.7	47.1	47.1	47.1	47.1	49.1	51.5	51.5	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 0400	.3	47.1	47.1	47.1	47.1	49.1	51.5	51.5	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 0800	.3	47.1	47.1	47.1	47.1	49.1	51.5	51.5	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 1200	.3	47.1	47.1	47.1	47.1	49.1	51.5	51.5	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 1600	.3	47.1	47.1	47.1	47.1	49.1	51.5	51.5	52.2	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
GE 2000	.7	51.5	52.2	52.2	52.2	53.6	57.0	57.0	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
GE 0000	.7	52.2	52.2	52.2	52.2	54.3	57.7	57.7	58.8	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
GE 0400	.7	55.3	55.7	55.7	55.7	57.0	60.5	60.5	61.5	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
GE 0800	.7	55.3	55.7	55.7	55.7	57.4	60.8	60.8	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
GE 1200	.7	56.7	57.4	57.4	57.4	58.8	62.2	62.2	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
GE 1600	1.4	59.8	60.5	60.5	60.5	61.9	65.6	65.6	66.7	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
GE 2000	1.4	62.5	63.2	63.2	63.2	64.6	68.4	68.4	69.4	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
GE 0000	1.4	64.6	65.3	65.3	65.3	66.7	70.4	70.4	71.5	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
GE 0400	1.4	67.7	68.4	68.4	68.4	69.8	73.5	73.5	74.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
GE 0800	1.4	70.8	71.5	71.5	71.5	73.2	77.3	77.3	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
GE 1200	1.4	74.1	74.9	74.9	74.9	76.6	80.8	80.8	82.0	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
GE 1600	1.4	76.3	77.1	77.1	77.1	78.7	82.8	82.8	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
GE 2000	1.4	78.3	79.1	79.1	79.1	80.8	84.8	84.8	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
GE 0000	1.4	77.3	78.1	78.1	78.1	80.4	84.6	84.6	86.2	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
GE 0400	1.4	78.4	79.2	79.2	79.2	81.3	85.0	85.0	86.9	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
GE 0800	1.4	79.1	79.7	79.7	79.7	82.5	86.4	86.4	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
GE 1200	1.4	80.4	81.1	81.1	81.1	84.2	88.2	88.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1600	1.4	80.4	81.1	81.1	81.1	84.2	88.2	88.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 2000	1.4	80.4	81.1	81.1	81.1	84.2	88.2	88.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 0000	1.4	80.4	81.1	81.1	81.1	84.2	88.2	88.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 0400	1.4	80.4	81.1	81.1	81.1	84.2	88.2	88.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 0800	1.4	80.4	81.1	81.1	81.1	84.2	88.2	88.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1200	1.4	80.4	81.1	81.1	81.1	84.2	88.2	88.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 1600	1.4	80.4	81.1	81.1	81.1	84.2	88.2	88.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
GE 2000	1.4	80.4	81.1	81.1	81.1	84.2	88.2	88.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1

TOTAL NUMBER OF OBSERVATIONS: 241



GLOBAL CLIMATOLOGY BRANCH  
LSAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: SEP HOURS(IST): 1200-1400

CEILING IN FEET	J	GE	GE	GE	GE	GE	GE	VISIBILITY IN STATUTE MILES									
								GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
		1	10	5	4	3	2 1/2	2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0
NO CEIL	1	.4	29.6	29.6	29.6	29.6	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
GE 20000	1	.4	29.6	29.6	29.6	29.6	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE 18000	1	.4	29.6	29.6	29.6	29.6	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE 16000	1	.4	29.6	29.6	29.6	29.6	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE 14000	1	.4	29.6	29.6	29.6	29.6	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE 12000	1	.4	29.6	29.6	29.6	29.6	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9
GE 10000	1	.7	44.0	44.0	44.0	44.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.8
GE 9000	1	.7	44.0	44.0	44.0	44.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.8
GE 8000	1	.7	44.0	44.0	44.0	44.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.8
GE 7000	1	.7	44.0	44.0	44.0	44.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.8
GE 6000	1	.7	44.7	44.7	44.7	45.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.5
GE 5000	1	.7	47.9	47.9	47.9	48.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.6
GE 4000	1	.7	48.9	48.9	48.9	49.3	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.7
GE 3500	1	.7	55.6	55.6	55.6	56.0	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.7
GE 3000	1	.7	57.4	57.4	57.4	57.7	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.5
GE 2500	1	.7	60.9	60.9	60.9	61.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	63.0
GE 2000	1	.7	70.1	70.1	70.1	70.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.9
GE 1800	1	.7	76.1	76.1	76.1	76.4	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	79.2
GE 1600	1	.7	78.5	78.5	78.5	78.9	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.7
GE 1400	1	.7	82.7	82.7	82.7	83.1	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.9
GE 1200	1	.7	86.3	86.3	86.3	86.6	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.4
GE 1000	1	.7	88.7	88.7	88.7	89.1	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.9
GE 900	1	.7	89.1	89.1	89.1	89.4	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.2
GE 800	1	.7	89.4	89.4	89.4	89.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.5
GE 700	1	.7	90.1	90.1	90.1	90.4	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	93.1
GE 600	1	.7	91.2	91.2	91.2	91.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	94.2
GE 500	1	.7	92.3	92.3	92.3	92.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	95.2
GE 400	1	.7	92.6	92.6	92.6	92.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.5
GE 300	1	.7	92.6	92.6	92.6	92.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.5
GE 200	1	.7	92.6	92.6	92.6	92.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.5
GE 100	1	.7	92.6	92.6	92.6	92.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.5
GE	1	.7	92.6	92.6	92.6	92.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.5

TOTAL NUMBER OF OBSERVATIONS: 264



PERCENTAGE FREQUENCY OF OCCURRENCE OF CFILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS(LST): 1500-1700

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 227



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: SEP HOURS (LST): 1800-2000

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 201



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-67  
MONTH: SEE HOURS(LST): 2100-2300

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 292



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 79-87  
POLICE: SEE HOURS(EST): ALL

CEILING	VISIBILITY IN STATUTE MILES															
	IN FEET	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6
		1	1 1/4	1 1/2	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7
NO CEILING	0.5	33.7	33.7	33.7	33.7	33.9	33.9	33.9	34.2	34.5	34.6	34.9	34.9	34.9	35.1	35.4
GE 20000	0.5	33.7	33.7	33.7	34.3	36.0	36.0	36.3	36.6	36.7	36.7	36.9	37.0	37.0	37.2	37.5
GE 18000	0.5	33.7	33.7	33.7	34.3	36.0	36.0	36.3	36.6	36.7	36.7	36.9	37.0	37.0	37.2	37.5
GE 16000	0.5	33.7	33.7	33.7	34.3	36.0	36.0	36.3	36.6	36.7	36.7	36.9	37.0	37.0	37.2	37.5
GE 14000	0.5	33.7	33.7	33.7	34.3	36.0	36.0	36.3	36.6	36.7	36.7	36.9	37.0	37.0	37.2	37.5
GE 12000	0.5	33.7	33.7	33.7	34.3	36.0	36.0	36.3	36.6	36.7	36.7	36.9	37.0	37.0	37.2	37.5
GE 10000	0.6	50.4	50.4	50.4	51.3	54.1	54.1	54.6	55.2	55.3	55.6	55.7	55.8	56.0	56.0	56.4
GE 9000	0.6	50.4	50.4	50.4	51.3	54.1	54.1	54.6	55.2	55.3	55.6	55.7	55.8	56.0	56.0	56.4
GE 8000	0.6	50.4	50.4	50.4	51.3	54.1	54.1	54.6	55.2	55.3	55.6	55.7	55.8	56.0	56.0	56.4
GE 7000	0.6	50.4	50.4	50.4	51.3	54.2	54.2	54.7	55.3	55.4	55.7	55.8	55.9	56.0	56.1	56.6
GE 6000	0.6	51.3	51.3	51.3	52.7	54.9	55.0	55.4	56.7	56.2	56.4	56.5	56.6	56.8	56.8	57.3
GE 5000	0.7	55.0	55.0	55.2	56.1	59.1	59.2	59.8	60.3	60.5	60.7	60.7	60.9	61.1	61.2	61.6
GE 4500	0.7	56.4	56.5	56.5	57.5	60.6	60.6	61.2	61.8	61.9	62.2	62.2	62.4	62.6	62.6	63.1
GE 4000	0.7	56.4	56.6	56.6	57.5	60.6	60.6	61.2	61.8	61.9	62.2	62.2	62.4	62.6	62.6	63.1
GE 3500	0.7	60.7	60.7	60.7	62.4	63.9	63.9	64.7	65.4	65.7	65.9	65.9	66.1	66.3	66.3	66.8
GE 3000	0.7	60.7	60.7	60.7	62.4	63.9	63.9	64.7	65.4	65.7	65.9	65.9	66.1	66.3	66.3	66.8
GE 2500	0.8	69.1	69.2	69.2	70.5	74.2	74.3	75.1	75.7	75.9	76.2	76.2	76.3	76.5	76.5	77.0
GE 2000	0.8	70.5	70.5	70.5	71.9	74.2	74.2	75.1	75.7	75.9	76.2	76.2	76.3	76.5	76.5	77.0
GE 1800	0.8	70.5	70.5	70.5	71.9	74.2	74.2	75.1	75.7	75.9	76.2	76.2	76.3	76.5	76.5	77.0
GE 1600	0.8	70.5	70.5	70.5	71.9	74.2	74.2	75.1	75.7	75.9	76.2	76.2	76.3	76.5	76.5	77.0
GE 1400	0.8	70.5	70.5	70.5	71.9	74.2	74.2	75.1	75.7	75.9	76.2	76.2	76.3	76.5	76.5	77.0
GE 1200	0.8	70.5	70.5	70.5	71.9	74.2	74.2	75.1	75.7	75.9	76.2	76.2	76.3	76.5	76.5	77.0
GE 1000	0.8	70.5	70.5	70.5	71.9	74.2	74.2	75.1	75.7	75.9	76.2	76.2	76.3	76.5	76.5	77.0
GE 900	0.8	70.5	70.5	70.5	71.9	74.2	74.2	75.1	75.7	75.9	76.2	76.2	76.3	76.5	76.5	77.0
GE 800	0.9	81.4	81.5	81.5	83.1	86.8	86.8	87.8	88.6	88.7	89.0	89.0	89.1	89.3	89.3	89.8
GE 700	0.9	81.4	81.5	81.5	83.1	86.8	86.8	87.8	88.6	88.7	89.0	89.0	89.1	89.3	89.3	89.8
GE 600	0.9	81.4	81.5	81.5	83.1	86.8	86.8	87.8	88.6	88.7	89.0	89.0	89.1	89.3	89.3	89.8
GE 500	0.9	81.4	81.5	81.5	83.1	86.8	86.8	87.8	88.6	88.7	89.0	89.0	89.1	89.3	89.3	89.8
GE 400	0.9	81.4	81.5	81.5	83.1	86.8	86.8	87.8	88.6	88.7	89.0	89.0	89.1	89.3	89.3	89.8
GE 300	0.9	81.4	81.5	81.5	83.1	86.8	86.8	87.8	88.6	88.7	89.0	89.0	89.1	89.3	89.3	89.8
GE 200	0.9	81.4	81.5	81.5	83.1	86.8	86.8	87.8	88.6	88.7	89.0	89.0	89.1	89.3	89.3	89.8
GE 100	0.9	81.4	81.5	81.5	83.1	86.8	86.8	87.8	88.6	88.7	89.0	89.0	89.1	89.3	89.3	89.8
GE 0	0.9	81.4	81.5	81.5	83.1	86.8	86.8	87.8	88.6	88.7	89.0	89.0	89.1	89.3	89.3	89.8

TOTAL NUMBER OF OBSERVATIONS: 2342



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 270757 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87  
MONTH: OCT HOURS: 0000-0200

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4	GE 0
NO CEIL			27.5	27.5	27.5	29.8	29.8	29.9	30.1	31.1	31.1	31.5	31.5	31.5	32.1	32.8
GE 2000			27.8	27.8	27.8	29.1	30.1	30.1	30.5	31.5	31.5	31.8	31.8	31.8	32.5	33.1
GE 1800			27.5	27.5	27.5	29.1	30.1	30.1	30.5	31.5	31.5	31.8	31.8	31.8	32.5	33.1
GE 1600			27.8	27.8	27.8	29.1	30.1	30.1	30.5	31.5	31.5	31.8	31.8	31.8	32.5	33.1
GE 1400			27.8	27.8	27.8	29.1	30.1	30.1	30.5	31.5	31.5	31.8	31.8	31.8	32.5	33.1
GE 1200			27.8	27.8	27.8	29.1	30.1	30.1	30.5	31.5	31.5	31.8	31.8	31.8	32.5	33.1
GE 1000			35.8	35.8	35.8	37.7	39.1	39.1	39.7	41.1	41.1	41.7	41.7	41.7	42.4	43.4
GE 900			35.8	35.8	35.8	37.7	39.1	39.1	39.7	41.1	41.1	41.7	41.7	41.7	42.4	43.4
GE 800			35.8	35.8	35.8	37.7	39.1	39.1	39.7	41.1	41.1	41.7	41.7	41.7	42.4	43.4
GE 700			36.1	36.1	36.1	38.1	39.4	39.4	40.1	41.4	41.4	42.1	42.1	42.1	42.7	43.7
GE 600			36.8	36.8	36.8	38.7	40.1	40.1	40.7	42.1	42.1	42.7	42.7	42.7	43.4	44.4
GE 500			41.4	41.4	41.4	43.4	44.7	44.7	45.4	46.7	46.7	47.4	47.4	47.4	48.0	49.0
GE 450			43.4	43.4	43.4	45.4	46.7	46.7	47.4	48.7	48.7	49.3	49.3	49.3	50.0	51.0
GE 400			46.7	46.7	46.7	48.7	50.3	50.3	51.0	52.3	52.3	53.0	53.0	53.0	53.6	54.6
GE 350			48.1	48.1	48.1	50.3	51.7	51.7	52.3	53.6	53.6	54.3	54.3	54.3	55.0	56.0
GE 300			50.3	50.3	50.3	52.3	54.3	54.3	55.0	56.3	56.3	57.0	57.0	57.0	57.6	58.6
GE 250			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 200			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 180			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 160			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 140			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 120			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 100			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 90			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 80			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 70			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 60			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 50			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 40			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 30			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 20			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 10			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6
GE 0			63.2	63.2	63.2	65.3	67.3	67.3	67.9	69.3	69.3	70.0	70.0	70.0	70.6	71.6

TOTAL NUMBER OF OBSERVATIONS: 732



GLOBAL CLIMATOLOGY BRANCH  
(SAFE)AC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 275050 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 74-87  
MONTH: OCT HOURS(IST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CELL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 20000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 19000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 18000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 17000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 16000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 15000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 14000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 13000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 12000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 11000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 10000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 9000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 8000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 7000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 6000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 5000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 4000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 3000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 2000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 1000	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
GE 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16



PERCENTAGE FREQUENCY OF OCCURRENCE OF FEILING VERSUS VIABILITY  
FROM FOURPLY OBSERVATIONS

REPLUG OF RECORD: 78-87

MOBILE: 001      HOURS (LST): 0600-0800

TOTAL NUMBER OF OBSERVATIONS: 247



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MCU

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27535 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87

MONTH: OCT

HOURS (LST): 0900-1100

CEILING		VISIBILITY IN STATUTE MILES																	
IN FEET		GE 1/2	GE 3/4	GE 1	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/4	GE 2 1/2	GE 2 3/4	GE 3	GE 3 1/4	GE 3 1/2	GE 3 3/4	GE 4	GE 4 1/4	GE 4 1/2	
NO CEIL	1		18.8	18.8	18.8	20.1	22.7	22.7	23.0	24.3	25.3	25.7	25.3	25.3	25.7	25.7	26.3		
GE 2000			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 1800			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 1600			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 1400			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 1200			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 1000			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 800			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 600			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 400			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 200			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 100			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 50			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 25			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 12			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 6			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 3			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 1			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.5			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.25			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.03125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.015625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0078125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00390625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.001953125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0009765625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00048828125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000244140625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0001220703125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00006103515625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000030517578125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0000152587890625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00000762939453125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000003814697265625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0000019073486328125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00000095367431640625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000000476837158203125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0000002384185791015625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00000011920928955078125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000000059604644775390625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0000000298023223876953125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00000001490116119384765625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000000007450580596923828125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0000000037252902984619140625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00000000186264514923095703125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000000000931322574615478515625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0000000004656612873077392578125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00000000023283064365386962890625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000000000116415321826934814453125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0000000000582076609134674072265625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00000000002910383045673370361328125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000000000014551915228366851806640625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0000000000072759576141834259033203125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00000000000363797880709171295166015625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000000000001818989403545856475830078125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0000000000009094947017729282379150390625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00000000000045474735088646191895751953125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000000000000227373675443230959478759765625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.0000000000001136868377216154797393798828125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.00000000000005684341886080773986968994140625			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		
GE 0.000000000000028421709430403869934844970703125			20.1	20.1	20.1	21.4	24.0	24.0	24.3	26.0	27.0	27.0	27.0	27.0	27.3	27.3	28.0		



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VARIOUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27591 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 76-87  
MONTH: OCT HOURS(IST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE
	1	1/2	3/4	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7
NO CEIL	1															
GE 20000		23.3	23.3	23.3	24.7	26.0	26.0	26.0	26.4	26.4	26.4	26.4	26.7	26.7	26.7	26.7
GE 18000		23.3	23.3	23.3	24.7	26.0	26.0	26.0	26.4	26.4	26.4	26.4	26.7	26.7	26.7	26.7
GE 16000		23.3	23.3	23.3	24.7	26.0	26.0	26.0	26.4	26.4	26.4	26.4	26.7	26.7	26.7	26.7
GE 14000		23.3	23.3	23.3	24.7	26.0	26.0	26.0	26.4	26.4	26.4	26.4	26.7	26.7	26.7	26.7
GE 12000		23.3	23.3	23.3	24.7	26.0	26.0	26.0	26.4	26.4	26.4	26.4	26.7	26.7	26.7	26.7
GE 10000		30.1	30.1	30.1	31.8	33.8	33.8	33.8	34.1	34.1	34.1	34.1	34.5	34.5	34.5	34.5
GE 9000		30.1	30.1	30.1	31.8	33.8	33.8	33.8	34.1	34.1	34.1	34.1	34.5	34.5	34.5	34.5
GE 8000		30.1	30.1	30.1	31.8	33.8	33.8	33.8	34.1	34.1	34.1	34.1	34.5	34.5	34.5	34.5
GE 7000		30.1	30.1	30.1	31.8	33.8	33.8	33.8	34.1	34.1	34.1	34.1	34.5	34.5	34.5	34.5
GE 6000		31.8	31.8	31.8	33.8	33.8	33.8	33.8	34.1	34.1	34.1	34.1	34.5	34.5	34.5	34.5
GE 5000		31.8	31.8	31.8	33.8	33.8	33.8	33.8	34.1	34.1	34.1	34.1	34.5	34.5	34.5	34.5
GE 4000		31.8	31.8	31.8	33.8	33.8	33.8	33.8	34.1	34.1	34.1	34.1	34.5	34.5	34.5	34.5
GE 3000		37.2	37.2	37.2	39.9	41.2	41.2	41.2	41.9	41.9	41.9	41.9	42.2	42.2	42.2	42.2
GE 2000		42.2	42.2	42.2	43.9	46.3	46.3	46.3	47.0	47.0	47.0	47.0	47.3	47.3	47.3	47.3
GE 1800		47.0	47.0	47.0	48.6	51.0	51.0	51.0	51.7	51.7	51.7	51.7	52.0	52.0	52.0	52.0
GE 1600		51.7	51.7	51.7	53.7	55.7	55.7	55.7	56.1	56.1	56.1	56.1	56.5	56.5	56.5	56.5
GE 1400		56.1	56.1	56.1	56.8	58.8	58.8	58.8	59.5	59.5	59.5	59.5	60.5	60.5	60.5	60.5
GE 1200		59.5	59.5	59.5	60.2	62.2	62.2	62.2	62.9	62.9	62.9	62.9	63.9	63.9	63.9	63.9
GE 1000		60.5	60.5	60.5	62.2	64.7	64.7	64.7	65.7	65.7	65.7	65.7	66.2	66.2	66.2	66.2
GE 900		66.2	66.2	66.2	67.0	69.7	69.7	69.7	70.7	70.7	70.7	70.7	71.7	71.7	71.7	71.7
GE 800		70.7	70.7	70.7	71.7	74.3	74.3	74.3	75.7	75.7	75.7	75.7	76.7	76.7	76.7	76.7
GE 700		74.3	74.3	74.3	75.7	77.7	77.7	77.7	78.7	78.7	78.7	78.7	79.7	79.7	79.7	79.7
GE 600		77.7	77.7	77.7	78.7	81.7	81.7	81.7	82.7	82.7	82.7	82.7	83.7	83.7	83.7	83.7
GE 500		81.7	81.7	81.7	82.7	84.7	84.7	84.7	85.7	85.7	85.7	85.7	86.7	86.7	86.7	86.7
GE 400		85.7	85.7	85.7	86.7	88.7	88.7	88.7	89.7	89.7	89.7	89.7	90.7	90.7	90.7	90.7
GE 300		89.7	89.7	89.7	90.7	92.7	92.7	92.7	93.7	93.7	93.7	93.7	94.7	94.7	94.7	94.7
GE 200		93.7	93.7	93.7	94.7	96.7	96.7	96.7	97.7	97.7	97.7	97.7	98.7	98.7	98.7	98.7
GE 100		97.7	97.7	97.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 206



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(LST): 1500-1700

[illegible]

TOTAL NUMBER OF OBSERVATIONS: 35



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 78-87  
MONTH: OCT HOURS(LST): 1800-2000

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	GE 1/8	GE 1/4	GE 3/8	GE 1/2	GE 3/4	GE 1	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/4	GE 2 1/2	GE 2 3/4	GE 3	GE 3 1/4	GE 3 1/2	GE 3 3/4
NO CEIL	1	2	24.5	24.5	24.5	27.2	28.2	28.2	28.5	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
GE 2300	1	3	26.5	26.5	26.5	28.9	29.9	29.9	30.2	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
GE 1800	1	3	26.5	26.5	26.5	28.9	29.9	29.9	30.2	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
GE 1600	1	3	26.5	26.5	26.5	28.9	29.9	29.9	30.2	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
GE 1400	1	3	26.5	26.5	26.5	28.9	29.9	29.9	30.2	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
GE 1200	1	3	26.5	26.5	26.5	28.9	29.9	29.9	30.2	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
GE 1000	1	3	31.9	31.9	31.9	37.2	39.3	39.3	39.9	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 900	1	3	31.9	31.9	31.9	37.2	39.3	39.3	39.9	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 800	1	3	31.9	31.9	31.9	37.2	39.3	39.3	39.9	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 700	1	3	31.9	31.9	31.9	37.2	39.3	39.3	39.9	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
GE 600	1	3	34.6	34.6	34.6	37.9	39.9	39.9	40.6	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
GE 500	1	3	39.6	39.6	39.6	43.3	45.3	45.3	46.3	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
GE 400	1	3	42.3	42.3	42.3	46.0	46.0	46.0	49.0	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
GE 300	1	3	46.3	46.3	46.3	50.3	52.3	52.3	53.4	54.0	54.4	54.4	54.4	54.4	54.4	54.4	54.4
GE 200	1	7	49.0	49.0	49.0	53.0	55.0	55.0	56.0	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0
GE 100	1	7	54.4	54.4	54.4	59.4	60.7	60.7	61.7	62.4	62.8	62.8	62.8	62.8	62.8	62.8	62.8
GE 200	1	7	58.1	58.1	58.1	62.4	64.8	64.8	65.8	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
GE 180	1	7	62.4	62.4	62.4	67.8	70.1	70.1	71.1	71.8	72.1	72.1	72.1	72.1	72.1	72.1	72.1
GE 160	1	7	66.1	66.1	66.1	69.8	72.8	72.8	73.8	74.5	74.6	74.6	74.6	74.6	74.6	74.6	74.6
GE 140	1	7	67.5	67.5	67.5	72.5	75.5	75.5	76.5	77.2	77.5	77.5	77.5	77.5	77.5	77.5	77.5
GE 120	1	7	70.5	70.5	70.5	75.8	79.9	79.9	81.2	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9
GE 100	1	7	71.9	71.9	71.9	77.9	83.6	83.6	84.9	86.2	86.6	86.6	86.6	86.6	86.6	86.6	86.6
GE 90	1	7	72.1	72.1	72.1	78.5	84.9	84.9	86.2	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9
GE 80	1	7	72.1	72.1	72.1	79.5	85.2	85.2	86.6	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6
GE 70	1	7	72.8	72.8	72.8	79.2	86.2	86.2	87.9	89.6	90.3	90.3	90.6	90.6	90.6	90.6	90.6
GE 60	1	7	72.8	72.8	72.8	79.2	86.2	86.2	89.6	92.3	93.0	93.0	93.3	93.3	93.3	93.3	93.3
GE 50	1	7	72.8	72.8	72.8	79.5	86.6	86.9	90.3	93.3	94.3	94.3	94.6	94.6	94.6	94.6	94.6
GE 40	1	7	73.2	73.2	73.2	80.5	87.9	88.3	91.6	94.6	96.0	96.0	96.3	96.3	96.3	96.3	96.3
GE 30	1	7	73.5	73.5	73.5	80.9	88.3	88.6	91.9	95.0	97.3	97.3	97.7	97.7	97.7	97.7	97.7
GE 20	1	7	73.5	73.5	73.5	80.9	88.3	88.6	91.9	95.0	97.7	97.7	98.0	98.0	98.3	98.3	99.0
GE 10	1	7	73.5	73.5	73.5	80.9	88.3	88.6	91.9	95.0	97.7	97.7	98.0	98.0	98.3	98.7	99.3
GE 0	1	7	73.8	73.8	73.8	81.2	88.6	88.9	92.3	95.3	98.0	98.0	98.3	98.3	98.7	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 298



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275450 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: OCT HOURS(LEST): 2100-2300

CEILING IN FEET	1	VISIBILITY IN STATUTE MILES															
		GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEIL	1	.0	27.6	27.6	27.6	29.5	30.2	30.2	30.2	31.2	31.5	31.5	31.5	31.5	31.9	31.9	31.9
GE 0000	.7	28.5	28.5	28.5	30.2	30.8	30.8	30.8	30.8	31.9	32.2	32.2	32.2	32.2	32.5	32.5	32.5
GE 0000	.3	28.5	28.5	28.5	30.2	30.8	30.8	30.8	30.8	31.9	32.2	32.2	32.2	32.2	32.5	32.5	32.5
GE 1000	.3	28.5	28.5	28.5	30.2	30.8	30.8	30.8	30.8	31.9	32.2	32.2	32.2	32.2	32.5	32.5	32.5
GE 1400	.3	28.5	28.5	28.5	30.2	30.8	30.8	30.8	30.8	31.9	32.2	32.2	32.2	32.2	32.5	32.5	32.5
GE 1200	.7	28.5	28.5	28.5	30.2	30.8	30.8	30.8	30.8	31.9	32.2	32.2	32.2	32.2	32.5	32.5	32.5
GE 1000	.7	39.3	39.3	39.3	41.7	43.4	43.4	44.1	45.1	45.4	45.4	45.4	45.4	45.4	46.1	46.1	46.1
GE 9000	.3	39.3	39.3	39.3	41.7	43.4	43.4	44.1	45.1	45.4	45.4	45.4	45.4	45.4	46.1	46.1	46.1
GE 8000	.7	39.3	39.3	39.3	41.7	43.4	43.4	44.1	45.1	45.4	45.4	45.4	45.4	45.4	46.1	46.1	46.1
GE 7000	.3	39.3	39.3	39.3	41.7	43.4	43.4	44.1	45.1	45.4	45.4	45.4	45.4	45.4	46.1	46.1	46.1
GE 6000	.7	40.0	40.0	40.0	42.4	44.1	44.1	44.7	45.8	46.1	46.1	46.1	46.1	46.1	46.8	46.8	46.8
GE 5000	.3	46.8	46.8	46.8	49.2	50.8	50.8	51.5	52.5	52.9	52.9	52.9	52.9	52.9	53.6	53.6	53.6
GE 4000	.7	48.1	48.1	48.1	50.5	52.2	52.2	52.9	53.9	54.2	54.2	54.2	54.2	54.2	54.9	54.9	54.9
GE 4000	.7	51.2	51.2	51.2	53.6	55.6	55.6	56.3	57.3	57.6	57.6	57.6	57.6	57.6	58.3	58.3	58.3
GE 3500	.3	53.6	53.6	53.6	55.9	58.0	58.0	58.6	59.7	60.0	60.0	60.0	60.0	60.0	60.7	60.7	60.7
GE 3000	.7	55.9	55.9	55.9	58.3	60.3	60.3	61.0	62.0	62.4	62.4	62.4	62.4	62.4	63.1	63.1	63.1
GE 2500	.3	58.1	58.1	58.1	60.3	62.4	62.4	63.1	64.1	64.4	64.4	64.4	64.4	64.4	65.1	65.1	65.1
GE 2000	.7	62.0	62.0	62.0	65.1	67.1	67.1	67.8	68.8	69.2	69.2	69.2	69.2	69.2	69.8	69.8	69.8
GE 1800	.7	63.7	63.7	63.7	67.1	69.2	69.2	69.8	70.8	71.2	71.2	71.2	71.2	71.2	71.9	71.9	71.9
GE 1500	.7	65.4	65.4	65.4	68.8	71.2	71.2	71.9	72.9	73.2	73.2	73.2	73.2	73.2	73.9	73.9	73.9
GE 1200	.3	68.1	68.1	68.1	71.9	74.6	74.6	75.3	76.3	76.6	76.6	76.6	76.6	76.6	77.3	77.3	77.3
GE 1000	.7	71.9	71.9	71.9	75.9	79.7	79.7	81.0	82.0	82.4	82.4	82.4	82.4	82.4	83.1	83.1	83.1
GE 9000	.7	72.2	72.2	72.2	76.3	80.3	80.3	81.7	82.7	83.1	83.1	83.1	83.1	83.1	83.7	83.7	83.7
GE 8000	.7	73.6	73.6	73.6	78.3	82.7	82.7	84.4	85.4	86.1	86.1	86.1	86.1	86.1	86.8	86.8	86.8
GE 7000	.7	74.2	74.2	74.2	79.7	84.4	84.4	86.8	87.9	88.5	88.5	88.5	88.5	88.5	89.2	89.2	89.2
GE 6000	.7	74.6	74.6	74.6	80.3	85.1	85.1	88.5	90.2	91.5	91.5	91.5	91.5	91.5	92.2	92.2	92.2
GE 5000	.7	74.6	74.6	74.6	80.3	85.8	85.8	89.2	91.9	93.6	93.6	93.6	93.6	93.6	94.2	94.2	94.2
GE 4000	.7	74.9	74.9	74.9	81.0	86.8	86.8	90.5	93.6	95.6	95.6	95.6	95.6	95.6	96.9	96.9	96.9
GE 3000	.7	74.9	74.9	74.9	81.4	87.1	87.1	91.2	94.2	96.6	96.6	96.6	96.6	96.6	98.0	98.0	98.0
GE 2000	.7	74.9	74.9	74.9	81.4	87.1	87.1	91.2	94.2	96.6	96.6	96.6	96.6	96.6	98.0	98.0	98.0
GE 1000	.7	74.9	74.9	74.9	81.4	87.1	87.1	91.2	94.2	96.6	96.6	96.6	96.6	96.6	98.0	98.0	98.0
GE 0000	.7	74.9	74.9	74.9	81.4	87.1	87.1	91.2	94.2	96.6	96.6	96.6	96.6	96.6	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS: 245



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87

MONTH: OCT HOURS(IST): ALL

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	1	CE 1	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
NO CEIL	1	.7	23.4	23.4	23.4	24.6	26.2	26.3	26.5	27.2	27.4	27.6	27.7	27.8	28.1	28.1	28.6
GE 2000	.2	24.6	24.6	24.6	25.8	27.4	27.5	27.7	28.5	28.7	28.9	29.1	29.3	29.3	29.3	29.8	29.8
GE 1800	.2	24.6	24.6	24.6	25.8	27.4	27.5	27.7	28.5	28.7	28.9	29.1	29.3	29.3	29.3	29.8	29.8
GE 1600	.2	24.6	24.6	24.6	25.8	27.4	27.5	27.7	28.5	28.7	28.9	29.1	29.3	29.3	29.3	29.8	29.8
GE 1400	.2	24.6	24.6	24.6	25.8	27.4	27.5	27.7	28.5	28.7	28.9	29.1	29.3	29.3	29.3	29.8	29.8
GE 1200	.2	24.6	24.6	24.6	25.8	27.4	27.5	27.7	28.5	28.7	28.9	29.1	29.3	29.3	29.3	29.8	29.8
GE 1000	.2	32.8	32.8	32.8	34.8	37.1	37.1	37.7	38.6	38.9	39.1	39.3	39.4	39.7	39.7	40.2	40.2
GE 900	.2	32.8	32.8	32.8	34.8	37.1	37.1	37.7	38.6	38.9	39.1	39.3	39.4	39.7	39.7	40.2	40.2
GE 800	.2	32.8	32.8	32.8	34.8	37.1	37.1	37.7	38.6	38.9	39.1	39.3	39.4	39.7	39.7	40.2	40.2
GE 700	.2	32.8	32.8	32.8	34.8	37.1	37.1	37.7	38.6	38.9	39.1	39.3	39.4	39.7	39.7	40.2	40.2
GE 600	.2	33.2	33.2	33.2	35.2	37.5	37.6	38.1	39.0	39.3	39.7	39.7	39.8	40.1	40.1	40.6	40.6
GE 500	.7	36.8	36.8	36.8	38.9	41.3	41.4	42.0	42.9	43.2	43.4	43.6	43.8	44.1	44.1	44.6	44.6
GE 450	.3	37.9	37.9	37.9	40.1	42.4	42.5	43.1	44.1	44.4	44.6	44.9	45.0	45.3	45.3	45.8	45.8
GE 400	.3	41.4	41.4	41.4	43.7	46.2	46.3	46.9	48.1	48.4	48.6	48.8	49.0	49.2	49.2	49.8	49.8
GE 350	.3	43.3	43.3	43.3	45.6	48.1	48.2	48.8	49.9	50.3	50.5	50.7	50.9	51.1	51.1	51.7	51.7
GE 300	.7	46.4	46.4	46.4	48.6	51.4	51.5	52.1	53.3	53.6	53.8	54.1	54.2	54.5	54.5	55.0	55.0
GE 250	.7	50.1	50.1	50.1	52.4	55.3	55.4	56.1	57.3	57.6	57.9	58.1	58.2	58.5	58.5	59.0	59.0
GE 200	.3	55.1	55.1	55.1	57.7	60.9	61.0	61.8	63.1	63.4	63.7	63.9	64.0	64.3	64.3	64.8	64.8
GE 150	.3	57.1	57.1	57.1	59.6	63.4	63.4	64.2	65.5	65.8	66.1	66.3	66.4	66.7	66.7	67.2	67.2
GE 110	.3	60.2	60.4	60.4	63.1	66.6	66.9	67.8	69.0	69.4	69.6	69.8	70.0	70.2	70.2	70.8	70.8
GE 100	.3	64.5	64.7	64.7	67.6	72.4	72.5	73.5	75.0	75.4	75.7	75.9	76.0	76.3	76.3	76.9	76.9
GE 90	.3	67.1	67.2	67.2	70.9	76.1	76.2	77.4	79.2	79.7	79.9	80.1	80.3	80.6	80.6	81.1	81.1
GE 80	.7	67.5	67.7	67.7	71.3	77.0	77.2	78.4	80.7	80.7	80.9	81.1	81.3	81.6	81.6	82.1	82.1
GE 70	.7	68.2	68.4	68.4	72.2	78.2	78.4	79.9	81.7	82.3	82.5	82.7	82.9	83.2	83.2	83.7	83.7
GE 60	.7	68.6	68.8	68.8	72.9	79.4	79.6	81.4	83.3	84.0	84.2	84.5	84.7	85.0	85.0	85.5	85.5
GE 50	.3	69.3	69.5	69.5	74.0	81.1	81.4	84.1	87.1	87.9	88.2	88.5	88.7	89.0	89.0	89.6	89.6
GE 40	.3	69.4	69.5	69.5	74.3	81.8	82.1	84.9	88.4	89.4	89.8	90.1	90.3	90.7	90.7	91.2	91.2
GE 30	.7	69.6	69.5	69.5	74.7	82.7	83.2	86.1	90.2	91.7	92.2	92.4	92.7	93.2	93.2	93.7	93.7
GE 20	.7	69.7	69.5	69.5	74.9	83.0	83.5	86.6	91.0	93.0	93.7	94.4	94.7	95.5	95.5	96.4	96.4
GE 10	.3	69.7	69.5	69.5	74.9	83.0	83.5	86.7	91.2	93.5	94.5	95.1	95.6	96.7	97.0	98.5	98.5
GE 0	.3	69.7	69.5	69.5	74.9	83.0	83.5	86.7	91.2	93.5	94.4	95.2	95.7	97.0	97.4	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS: 2799



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-84  
MONTH: NOV HOURS(LST): 0000-0200

CEILING		VISIBILITY IN STATUTE MILES															
IN FEET	1	GE 1/2	GE 3/4	GE 1	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/4	GE 2 1/2	GE 2 3/4	GE 3	GE 3 1/4	GE 3 1/2	GE 3 3/4	GE 4	
NO CEIL	1		13.2	13.2	13.2	14.2	14.9	14.9	14.9	16.2	16.7	16.7	16.7	16.7	16.7	17.0	17.4
GE 2000			14.2	14.2	14.2	15.3	16.0	16.0	16.0	17.4	17.7	17.7	17.7	17.7	17.7	18.1	18.4
GE 1800			14.2	14.2	14.2	15.3	16.0	16.0	16.0	17.4	17.7	17.7	17.7	17.7	17.7	18.1	18.4
GE 1600			14.2	14.2	14.2	15.3	16.0	16.0	16.0	17.4	17.7	17.7	17.7	17.7	17.7	18.1	18.4
GE 1400			14.2	14.2	14.2	15.3	16.0	16.0	16.0	17.4	17.7	17.7	17.7	17.7	17.7	18.1	18.4
GE 1200			14.2	14.2	14.2	15.3	16.0	16.0	16.0	17.4	17.7	17.7	17.7	17.7	17.7	18.1	18.4
GE 1000			19.4	19.4	19.4	20.8	21.9	21.9	22.2	23.6	24.0	24.0	24.0	24.0	24.0	24.3	24.7
GE 900			19.4	19.4	19.4	20.8	21.9	21.9	22.2	23.6	24.0	24.0	24.0	24.0	24.0	24.3	24.7
GE 800			19.4	19.4	19.4	20.8	21.9	21.9	22.2	23.6	24.0	24.0	24.0	24.0	24.0	24.3	24.7
GE 700			19.4	19.4	19.4	20.8	21.9	21.9	22.2	23.6	24.0	24.0	24.0	24.0	24.0	24.3	24.7
GE 600			19.4	19.4	19.4	20.8	21.9	21.9	22.2	23.6	24.0	24.0	24.0	24.0	24.0	24.3	24.7
GE 500			21.2	21.2	21.2	22.6	23.6	23.6	24.0	25.3	25.7	25.7	25.7	25.7	25.7	26.0	26.4
GE 400			21.2	21.2	21.2	22.6	23.6	23.6	24.0	25.3	25.7	25.7	25.7	25.7	25.7	26.0	26.4
GE 300			21.2	21.2	21.2	22.6	23.6	23.6	24.0	25.3	25.7	25.7	25.7	25.7	25.7	26.0	26.4
GE 200			22.9	22.9	22.9	24.3	25.3	25.3	25.7	27.1	27.4	27.4	27.4	27.4	27.4	27.8	28.1
GE 100			25.7	25.7	25.7	27.8	28.8	28.8	29.5	30.9	31.3	31.3	31.3	31.3	31.3	31.6	31.9
GE 50			27.4	27.4	27.4	29.5	30.9	30.9	32.3	33.7	34.0	34.0	34.0	34.0	34.0	34.4	34.7
GE 40			30.6	30.6	30.6	33.0	34.4	34.4	35.8	37.2	37.5	37.5	37.5	37.5	37.5	37.8	38.2
GE 30			32.6	32.6	32.6	35.1	36.5	36.5	37.9	39.2	39.6	39.6	39.6	39.6	39.6	39.9	40.3
GE 20			34.6	34.6	34.6	37.1	38.5	38.5	39.9	41.2	41.6	41.6	41.6	41.6	41.6	41.9	42.3
GE 10			36.5	36.5	36.5	39.0	40.4	40.4	41.8	43.1	43.5	43.5	43.5	43.5	43.5	43.8	44.2
GE 5			38.5	38.5	38.5	40.9	42.3	42.3	43.7	45.0	45.4	45.4	45.4	45.4	45.4	45.7	46.1
GE 0			40.4	40.4	40.4	42.8	44.2	44.2	45.6	46.9	47.3	47.3	47.3	47.3	47.3	47.6	48.0
GE 0			42.3	42.3	42.3	44.7	46.1	46.1	47.5	48.8	49.2	49.2	49.2	49.2	49.2	49.5	49.9
GE 0			44.2	44.2	44.2	46.6	48.0	48.0	49.4	50.7	51.1	51.1	51.1	51.1	51.1	51.4	51.8
GE 0			46.1	46.1	46.1	48.5	49.9	49.9	51.3	52.6	53.0	53.0	53.0	53.0	53.0	53.3	53.7
GE 0			48.0	48.0	48.0	50.4	51.8	51.8	53.2	54.5	54.9	54.9	54.9	54.9	54.9	55.2	55.6
GE 0			50.0	50.0	50.0	52.3	53.7	53.7	55.1	56.4	56.8	56.8	56.8	56.8	56.8	57.1	57.5
GE 0			51.9	51.9	51.9	54.3	55.7	55.7	57.1	58.4	58.8	58.8	58.8	58.8	58.8	59.1	59.5
GE 0			53.8	53.8	53.8	56.2	57.6	57.6	59.0	60.3	60.7	60.7	60.7	60.7	60.7	61.0	61.4
GE 0			55.7	55.7	55.7	58.1	59.5	59.5	60.9	62.2	62.6	62.6	62.6	62.6	62.6	62.9	63.3
GE 0			57.6	57.6	57.6	60.0	61.4	61.4	62.8	64.1	64.5	64.5	64.5	64.5	64.5	64.8	65.2
GE 0			59.5	59.5	59.5	61.9	63.3	63.3	64.7	66.0	66.4	66.4	66.4	66.4	66.4	66.7	67.1
GE 0			61.4	61.4	61.4	63.8	65.2	65.2	66.6	67.9	68.3	68.3	68.3	68.3	68.3	68.6	69.0
GE 0			63.3	63.3	63.3	65.7	67.1	67.1	68.5	69.8	70.2	70.2	70.2	70.2	70.2	70.5	70.9
GE 0			65.2	65.2	65.2	67.6	69.0	69.0	70.4	71.7	72.1	72.1	72.1	72.1	72.1	72.4	72.8
GE 0			67.1	67.1	67.1	69.5	70.9	70.9	72.3	73.6	74.0	74.0	74.0	74.0	74.0	74.3	74.7
GE 0			69.0	69.0	69.0	71.4	72.8	72.8	74.2	75.5	75.9	75.9	75.9	75.9	75.9	76.2	76.6
GE 0			70.9	70.9	70.9	73.3	74.7	74.7	76.1	77.4	77.8	77.8	77.8	77.8	77.8	78.1	78.5
GE 0			72.8	72.8	72.8	75.2	76.6	76.6	78.0	79.3	79.7	79.7	79.7	79.7	79.7	80.0	80.4
GE 0			74.7	74.7	74.7	77.1	78.5	78.5	79.9	81.2	81.6	81.6	81.6	81.6	81.6	81.9	82.3
GE 0			76.6	76.6	76.6	79.0	80.4	80.4	81.8	83.1	83.5	83.5	83.5	83.5	83.5	83.8	84.2
GE 0			78.5	78.5	78.5	80.9	82.3	82.3	83.7	85.0	85.4	85.4	85.4	85.4	85.4	85.7	86.1
GE 0			80.4	80.4	80.4	82.8	84.2	84.2	85.6	86.9	87.3	87.3	87.3	87.3	87.3	87.6	88.0
GE 0			82.3	82.3	82.3	84.7	86.1	86.1	87.5	88.8	89.2	89.2	89.2	89.2	89.2	89.5	89.9
GE 0			84.2	84.2	84.2	86.6	88.0	88.0	89.4	90.7	91.1	91.1	91.1	91.1	91.1	91.4	91.8
GE 0			86.1	86.1	86.1	88.5	89.9	89.9	91.3	92.6	93.0	93.0	93.0	93.0	93.0	93.3	93.7
GE 0			88.0	88.0	88.0	90.4	91.8	91.8	93.2	94.5	94.9	94.9	94.9	94.9	94.9	95.2	95.6
GE 0			90.0	90.0	90.0	92.3	93.7	93.7	95.1	96.4	96.8	96.8	96.8	96.8	96.8	97.1	97.5
GE 0			91.9	91.9	91.9	94.3	95.7	95.7	97.1	98.4	98.8	98.8	98.8	98.8	98.8	99.1	99.5
GE 0			93.8	93.8	93.8	96.2	97.6	97.6	99.0	100.3	100.7	100.7	100.7	100.7	100.7	101.0	101.4
GE 0			95.7	95.7	95.7	98.1	99.5	99.5	100.9	102.2	102.6	102.6	102.6	102.6	102.6	102.9	103.3
GE 0			97.6	97.6	97.6	100.0	101.4	101.4	102.8	104.1	104.5	104.5	104.5	104.5	104.5	104.8	105.2
GE 0			99.5	99.5	99.5	101.9	103.3	103.3	104.7	106.0	106.4	106.4	106.4	106.4	106.4	106.7	107.1
GE 0			101.4	101.4	101.4	103.8	105.2	105.2	106.6	107.9	108.3	108.3	108.3	108.3	108.3	108.6	109.0
GE 0			103.3	103.3	103.3	105.7	107.1	107.1	108.5	109.8	110.2	110.2	110.2	110.2	110.2	110.5	110.9
GE 0			105.2	105.2	105.2	107.6	109.0	109.0	110.4	111.7	112.1	112.1	112.1	112.1	112.1	112.4	112.8
GE 0			107.1	107.1	107.1	109.5	110.9	110.9	112.3	113.6	114.0	114.0	114.0	114.0	114.0	114.3	114.7
GE 0			109.0	109.0	109.0	111.4	112.8	112.8	114.2	115.5	115.9	115.9	115.9	115.9	115.9	116.2	116.6
GE 0			110.9	110.9	110.9	113.3	114.7	114.7	116.1	117.4	117.8	117.8	117.8	117.8	117.8	118.1	118.5
GE 0			112.8	112.8	112.8	115.2	116.6	116.6	118.0	119.3	119.7	119.7	119.7	119.7	119.7	120.0	120.4
GE 0			114.7	114.7	114.7	117.1	118.5	118.5	119.9	121.2	121.6	121.6	121.6	121.6	121.6	121.9	122.3
GE 0			116.6	116.6	116.6	119.0	120.4	120.4	121.8	123.1	123.5	123.5	123.5	123.5	123.5	123.8	124.2
GE 0			118.5	118.5	118.5	120.9	122.3	122.3	123.7	125.0	125.4	125.4	125.4	125.4	125.4	125.7	126.1
GE 0			120.4	120.4	120.4	122.8	124.2	124.2	125.6	126.9	127.3	127.3	127.3	127.3	127.3	127.6	128.0
GE 0			122.3	122.3	122.3	124.7	126.1	126.1	127.5	128.8	129.2	129.2	129.2	129.2	129.2	129.5	129.9
GE 0			124.2	124.2	124.2	126.6	128.0	128.0	129.4	130.7	131.1	131.1	131.1	131.1	131.1	131.4	131.8
GE 0			126.1	126.1	126.1	128.5	129.9	129.9	131.3	132.6	133.0	133.0	133.0	133.0	133.0	133.3	133.7
GE 0			128.0	128.0	128.0	130.4	131.8	131.8	133.2	134.5	134.9	134.9	134.9	134.9	134.9	135.2	135.6
GE 0			130.0	130.0	130.0	132.3	133.7	133.7	135.1	136.4	136.8	136.8	136.8	136.8	136.8	137.1	137.5
GE 0			131.9	131.9	131.9	134.2											



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(LST): 0300-0500

TOTAL NUMBER OF OBSERVATIONS: 272



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS(UT): 0600-0900

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CLD																
GE 2000																
GE 1800																
GE 1600																
GE 1400																
GE 1200																
GE 1000																
GE 900																
GE 800																
GE 700																
GE 600																
GE 500																
GE 400																
GE 300																
GE 200																
GE 100																
GE 0																

TOTAL NUMBER OF OBSERVATIONS: 256



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

FLIPID OF RECORD: 77-86  
MONTH: NOV HOURS(EST): 0900-1100

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEILING	1.4	10.0	10.0	10.0	10.0	10.7	10.7	10.7	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
GE 20000	1.4	10.7	10.7	10.7	10.7	11.7	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
GE 18000	1.4	10.7	10.7	10.7	10.7	11.7	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
GE 16000	1.4	10.7	10.7	10.7	10.7	11.7	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
GE 14000	1.4	10.7	10.7	10.7	10.7	11.7	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
GE 12000	1.4	10.7	10.7	10.7	10.7	11.7	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
GE 10000	1.4	17.6	17.6	17.6	18.5	20.3	20.3	21.4	22.4	22.4	23.1	23.5	23.5	23.5	23.5	23.5
GE 9000	1.4	17.6	17.6	17.6	18.5	20.3	20.3	21.4	22.4	22.4	23.1	23.5	23.5	23.5	23.5	23.5
GE 8000	1.4	17.6	17.6	17.6	18.5	20.3	20.3	21.4	22.4	22.4	23.1	23.5	23.5	23.5	23.5	23.5
GE 7000	1.4	17.6	17.6	17.6	18.5	20.3	20.3	21.4	22.4	22.4	23.1	23.5	23.5	23.5	23.5	23.5
GE 6000	1.4	17.6	17.6	17.6	18.5	20.3	20.3	21.4	22.4	22.4	23.1	23.5	23.5	23.5	23.5	23.5
GE 5000	1.4	19.6	19.6	19.6	20.3	22.4	22.4	23.5	24.6	24.6	25.6	25.6	25.6	25.6	25.6	25.6
GE 4000	1.4	20.6	20.6	20.6	21.4	22.4	22.4	23.5	24.6	24.6	25.6	25.6	25.6	25.6	25.6	25.6
GE 3000	1.4	22.4	22.4	22.4	23.1	25.3	25.3	26.3	27.4	27.4	28.1	28.1	28.1	28.1	28.1	28.1
GE 2000	1.4	22.4	22.4	22.4	23.1	25.3	25.3	26.3	27.4	27.4	28.1	28.1	28.1	28.1	28.1	28.1
GE 1000	1.4	23.1	23.1	23.1	23.5	26.0	26.0	27.0	28.5	28.5	29.0	29.0	29.0	29.0	29.0	29.0
GE 20000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 18000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 16000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 14000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 12000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 10000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 9000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 8000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 7000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 6000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 5000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 4000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 3000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 2000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 1000	1.4	24.6	24.6	24.6	25.3	27.4	27.4	28.5	29.9	29.9	30.6	31.0	31.3	31.3	31.3	31.3
GE 0	1.4	49.8	51.6	51.6	57.7	68.3	69.4	75.1	83.6	87.2	89.7	91.5	92.9	94.7	95.0	100.0

TOTAL NUMBER OF OBSERVATIONS: 254



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS (LST): 1200-1400

CEILING IN FEET	VISIBILITY IN STATUTE MILES																
	GE 1	GE 10	GE 15	GE 20	GE 25	GE 30	GE 35	GE 40	GE 45	GE 50	GE 55	GE 60	GE 65	GE 70	GE 75	GE 80	GE 85
NO CEIL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 2000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 1000	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 900	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 800	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 700	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 600	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 500	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 400	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 300	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 200	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 50	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GE 0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

TOTAL NUMBER OF OBSERVATIONS: 240



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/PAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 27500 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-EE  
MONTH: NOV HOURS(IST): 1600-1700

CEILING		VISIBILITY IN STATUTE MILES															
IN	FEET	GE 1/8	GF 1/8	GF 1/4	GE 1/2	GE 3/4	GE 1	GE 1 1/4	GE 1 1/2	GE 1 3/4	GE 2	GE 2 1/4	GE 2 1/2	GE 2 3/4	GE 3	GE 3 1/4	GE 3 1/2
NO CEIL	1	14.0	14.0	14.0	15.0	15.6	15.6	15.6	15.6	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
GE 20000		16.7	16.7	16.7	17.0	17.7	17.7	17.7	17.7	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
GE 18000		16.7	16.7	16.7	17.0	17.7	17.7	17.7	17.7	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
GE 16000		16.7	16.7	16.7	17.0	17.7	17.7	17.7	17.7	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
GE 14000		16.7	16.7	16.7	17.0	17.7	17.7	17.7	17.7	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
GE 12000		16.7	16.7	16.7	17.0	17.7	17.7	17.7	17.7	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
GE 10000		23.5	27.5	23.5	24.8	26.2	26.2	26.2	26.2	26.5	26.9	26.9	26.9	26.9	27.6	27.6	27.6
GE 9000		23.5	27.5	23.5	24.8	26.2	26.2	26.2	26.2	26.5	26.9	26.9	26.9	26.9	27.6	27.6	27.6
GE 8000		23.5	27.5	23.5	24.8	26.2	26.2	26.2	26.2	26.5	26.9	26.9	26.9	26.9	27.6	27.6	27.6
GE 7000		23.5	27.5	23.5	24.8	26.2	26.2	26.2	26.2	26.5	26.9	26.9	26.9	26.9	27.6	27.6	27.6
GE 6000		23.5	27.5	23.5	25.2	26.5	26.5	26.5	26.5	26.9	27.2	27.2	27.2	27.2	27.9	27.9	27.9
GE 5000		23.5	27.5	23.5	25.5	26.9	26.9	26.9	27.2	27.6	27.6	27.6	27.6	27.6	28.2	28.2	28.2
GE 4500		24.5	28.5	24.5	26.2	27.6	27.6	27.6	27.9	28.2	28.2	28.2	28.2	28.2	28.9	28.9	28.9
GE 4000		25.5	29.5	25.5	27.2	28.6	28.6	28.6	28.9	29.3	29.3	29.3	29.3	29.3	29.9	29.9	29.9
GE 3500		26.5	29.5	25.5	27.6	28.9	28.9	28.9	29.3	29.6	29.6	29.6	29.6	29.6	30.3	30.3	30.3
GE 3000		27.6	27.6	27.6	29.3	30.6	30.6	30.6	31.3	31.6	31.6	31.6	31.6	31.6	32.3	32.3	32.3
GE 2500		32.0	32.3	32.3	34.4	36.7	36.7	36.7	37.4	37.8	37.8	37.8	37.8	37.8	38.4	38.4	38.4
GE 2000		38.1	38.1	38.1	40.1	43.2	43.2	43.2	43.9	44.2	44.2	44.2	44.2	44.2	45.2	45.2	45.2
GE 1800		40.1	40.1	40.1	42.2	45.6	45.6	45.6	46.6	46.9	46.9	46.9	46.9	46.9	47.3	47.3	47.3
GE 1600		44.2	44.2	44.2	46.2	49.7	49.7	49.7	50.3	51.0	51.4	51.4	51.4	51.4	51.7	51.7	51.7
GE 1400		51.0	51.0	51.0	53.7	58.2	58.2	58.2	58.8	60.9	60.9	60.9	60.9	60.9	61.2	61.2	61.2
GE 1200		52.4	52.4	52.4	55.1	60.9	60.9	60.9	61.9	64.3	64.6	64.6	64.6	64.6	65.0	65.0	65.0
GE 1000		55.4	55.4	55.4	59.5	65.3	65.3	65.3	66.3	68.7	69.0	69.0	69.0	69.0	69.7	69.7	69.7
GE 900		57.5	57.5	57.5	61.9	67.7	67.7	67.7	69.7	72.1	72.4	72.4	72.4	72.4	73.1	73.1	73.1
GE 800		58.2	58.2	58.2	63.6	70.7	70.7	70.7	72.1	75.2	75.5	75.5	75.5	75.5	76.2	76.2	76.2
GE 700		59.5	59.5	59.5	66.0	72.8	72.8	72.8	76.2	81.1	81.6	81.6	81.6	81.6	82.7	82.7	82.7
GE 600		59.9	59.9	59.9	66.3	72.2	72.2	72.2	77.6	83.1	83.7	83.7	83.7	83.7	85.0	85.0	85.0
GE 500		59.9	59.9	59.9	66.7	76.5	76.5	76.5	79.9	86.7	87.4	87.4	87.4	87.4	89.1	89.1	89.1
GE 400		59.9	59.9	59.9	67.0	76.9	76.9	76.9	81.0	88.1	89.5	89.5	89.5	89.5	91.2	91.2	91.2
GE 300		59.9	59.9	59.9	67.0	76.9	76.9	76.9	81.0	88.1	89.5	89.5	89.5	89.5	91.2	91.2	91.2
GE 200		59.9	59.9	59.9	67.0	76.9	76.9	76.9	81.0	88.1	89.5	89.5	89.5	89.5	91.2	91.2	91.2
GE 100		59.9	59.9	59.9	67.0	76.9	76.9	76.9	81.0	88.1	89.5	89.5	89.5	89.5	91.2	91.2	91.2

TOTAL NUMBER OF OBSERVATIONS: 24



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-84  
MONTH: NOV HOURS(IST): 1900-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	1 1/2	2	2 1/2	3	4	5	6	7	8	9	10	11	12	13	14
NO CEIL	1	14.7	14.7	14.7	15.4	15.6	15.8	15.8	16.8	17.1	17.1	17.1	17.1	17.1	17.1	17.1
GE 2000		15.8	15.8	15.8	16.8	17.1	17.1	17.1	18.2	18.5	18.5	18.5	18.5	18.5	18.5	18.5
GE 1800		15.8	15.8	15.8	16.8	17.1	17.1	17.1	18.2	18.5	18.5	18.5	18.5	18.5	18.5	18.5
GE 1600		15.8	15.8	15.8	16.8	17.1	17.1	17.1	18.2	18.5	18.5	18.5	18.5	18.5	18.5	18.5
GE 1400		15.8	15.8	15.8	16.8	17.1	17.1	17.1	18.2	18.5	18.5	18.5	18.5	18.5	18.5	18.5
GE 1200		15.8	15.8	15.8	16.8	17.1	17.1	17.1	18.2	18.5	18.5	18.5	18.5	18.5	18.5	18.5
GE 1000		21.6	21.6	21.6	22.9	23.6	23.6	23.6	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.0
GE 900		21.6	21.6	21.6	22.9	23.6	23.6	23.6	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.0
GE 800		21.6	21.6	21.6	22.9	23.6	23.6	23.6	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.0
GE 700		21.6	21.6	21.6	22.9	23.6	23.6	23.6	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.0
GE 600		21.6	21.6	21.6	22.9	23.6	23.6	23.6	25.3	26.0	26.0	26.0	26.0	26.0	26.0	26.0
GE 500		22.3	22.3	22.3	23.6	24.3	24.7	24.7	26.4	27.1	27.1	27.1	27.1	27.1	27.1	27.1
GE 400		22.6	22.6	22.6	24.0	24.7	25.0	25.0	26.7	27.4	27.4	27.4	27.4	27.4	27.4	27.4
GE 300		24.3	24.3	24.3	26.4	27.1	27.4	27.4	29.1	29.8	29.8	29.8	29.8	29.8	29.8	29.8
GE 200		24.7	24.7	24.7	26.7	27.4	27.7	27.7	29.5	30.1	30.1	30.1	30.1	30.1	30.1	30.1
GE 100	.3	25.1	25.1	25.1	31.2	31.6	32.2	32.2	33.9	34.6	34.6	34.6	34.6	34.6	34.6	34.6
GE 500	.7	32.9	32.9	32.9	34.9	35.6	36.0	36.0	37.7	38.4	38.4	38.4	38.4	38.4	38.4	38.4
GE 400	.7	36.6	36.6	36.6	39.0	40.1	40.4	40.4	42.1	42.8	42.8	42.8	42.8	42.8	42.8	42.8
GE 300	.7	37.7	37.7	37.7	40.6	41.8	42.1	42.1	43.8	44.5	44.5	44.5	44.5	44.5	44.5	44.5
GE 200	.7	40.6	40.6	40.6	44.5	45.5	45.9	45.9	48.6	49.3	49.3	49.3	49.3	49.3	49.3	49.3
GE 100	.7	49.7	49.7	49.7	54.5	55.5	55.8	55.8	59.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3
GE 500	.7	52.4	52.4	52.4	57.2	58.6	59.0	59.0	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7
GE 400	.7	54.5	54.5	54.5	59.9	62.7	63.0	63.0	66.9	67.8	67.8	67.8	67.8	67.8	67.8	67.8
GE 300	.7	55.8	55.8	55.8	62.0	65.1	65.4	65.4	69.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
GE 200	.7	55.8	55.8	55.8	62.3	66.1	66.4	66.4	72.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
GE 100	.7	57.9	57.9	57.9	65.1	69.5	70.2	70.2	75.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
GE 500	.7	58.6	58.6	58.6	66.4	71.9	71.6	71.6	75.6	81.2	82.4	82.4	82.4	82.4	82.4	82.4
GE 400	.7	59.9	59.9	59.9	68.5	73.6	74.3	74.3	77.7	86.0	87.0	87.0	87.0	87.0	87.0	87.0
GE 300	.7	59.9	59.9	59.9	69.6	74.0	75.3	75.3	79.1	87.2	89.7	89.7	89.7	89.7	89.7	89.7
GE 200	.7	59.9	59.9	59.9	69.8	74.0	75.7	75.7	79.5	87.7	90.4	90.4	90.4	90.4	90.4	90.4
GE 100	.7	59.9	59.9	59.9	69.8	74.0	75.7	75.7	79.5	87.7	90.4	90.4	90.4	90.4	90.4	90.4
GE	.7	59.9	59.9	59.9	69.8	74.0	75.7	75.7	79.5	87.7	90.4	90.4	90.4	90.4	90.4	90.4

TOTAL NUMBER OF OBSERVATIONS: 292



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

Page 71 of 86 RECORD: 77-86

MONTH: NOV HOURS (LST): 2100-2300

NO	CEILING								VISIBILITY IN STATUTE MILES										
	IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
01	20000		16.0	16.5	16.6	17.3	17.6	17.6	18.0	19.7	20.0	20.7	20.9	20.9	20.9	20.9	20.9	20.9	20.9
02	18000		16.0	16.6	16.6	17.3	17.6	17.6	18.0	19.7	20.0	20.7	20.9	20.9	20.9	20.9	20.9	20.9	20.9
03	16000		16.0	16.6	16.6	17.3	17.6	17.6	18.0	19.7	20.0	20.7	20.9	20.9	20.9	20.9	20.9	20.9	20.9
04	14000		16.0	16.6	16.6	17.3	17.6	17.6	18.0	19.7	20.0	20.7	20.9	20.9	20.9	20.9	20.9	20.9	20.9
05	12000		16.0	16.6	16.6	17.3	17.6	17.6	18.0	19.7	20.0	20.7	20.9	20.9	20.9	20.9	20.9	20.9	20.9
06	10000		20.0	20.5	20.5	21.0	21.7	21.7	22.0	23.7	24.4	24.4	24.7	24.7	24.7	24.7	24.7	24.7	24.7
07	9000		20.0	20.5	20.5	21.0	21.7	21.7	22.0	23.7	24.4	24.4	24.7	24.7	24.7	24.7	24.7	24.7	24.7
08	8000		20.0	20.5	20.5	21.0	21.7	21.7	22.0	23.7	24.4	24.4	24.7	24.7	24.7	24.7	24.7	24.7	24.7
09	7000		20.0	20.5	20.5	21.0	21.7	21.7	22.0	23.7	24.4	24.4	24.7	24.7	24.7	24.7	24.7	24.7	24.7
10	6000		20.0	20.5	20.5	21.0	21.7	21.7	22.0	23.7	24.4	24.4	24.7	24.7	24.7	24.7	24.7	24.7	24.7
11	5000		22.0	22.0	22.0	22.7	23.4	23.4	23.7	25.4	26.1	26.1	26.4	26.4	26.4	26.4	26.4	26.4	26.4
12	4500		23.1	23.1	23.1	23.7	24.4	24.4	24.7	26.4	27.1	27.1	27.5	27.5	27.5	27.5	27.5	27.5	27.5
13	4000		25.0	25.0	25.0	25.4	26.1	26.1	26.4	28.1	28.8	28.8	29.2	29.2	29.2	29.2	29.2	29.2	29.2
14	3500		26.4	26.4	26.4	27.1	27.8	27.8	28.1	29.8	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
15	3000		28.0	28.0	28.0	29.2	29.8	29.8	30.2	31.9	32.6	32.6	32.9	32.9	32.9	32.9	32.9	32.9	32.9
16	2500		31.0	31.0	31.0	32.0	32.9	32.9	33.6	35.3	36.3	36.3	36.6	36.6	36.6	36.6	36.6	36.6	36.6
17	2000		36.0	36.0	36.0	38.6	39.3	39.3	40.0	41.7	42.6	42.6	43.1	43.1	43.1	43.1	43.1	43.1	43.1
18	1500		40.0	40.0	40.0	41.0	41.7	41.7	42.6	44.1	45.1	45.1	45.4	45.4	45.4	45.4	45.4	45.4	45.4
19	1000		42.0	42.0	42.0	43.7	44.4	44.4	45.1	47.1	48.0	48.0	48.2	48.2	48.2	48.2	48.2	48.2	48.2
20	500		47.1	47.1	47.1	49.5	50.6	50.6	52.2	54.2	55.6	55.6	56.3	56.3	56.3	56.3	56.3	56.3	56.3
21	10000		51.0	51.0	51.0	54.0	55.9	55.9	57.3	59.2	61.0	61.4	61.7	61.7	61.7	61.7	61.7	61.7	61.7
22	9000		52.9	52.9	52.9	56.2	58.0	58.0	59.3	61.7	63.7	64.1	64.4	64.4	64.4	64.4	64.4	64.4	64.4
23	8000		54.9	54.9	54.9	58.4	60.3	60.3	61.7	64.4	66.4	66.7	67.1	67.1	67.1	67.1	67.1	67.1	67.1
24	7000		56.9	56.9	56.9	61.4	63.7	63.7	65.1	67.8	69.8	70.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5
25	6000		59.7	59.7	59.7	64.7	67.5	67.5	70.8	74.3	76.0	76.6	76.9	76.9	76.9	76.9	76.9	76.9	76.9
26	5000		61.0	61.0	61.0	66.8	69.8	69.8	72.0	75.6	77.0	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1
27	4000		61.7	61.7	61.7	67.6	71.5	71.5	72.5	76.3	78.7	79.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4
28	3000		61.7	61.7	61.7	69.1	72.2	72.2	73.2	77.6	80.4	80.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7
29	2000		62.0	62.0	62.0	69.5	72.5	72.5	73.6	78.1	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6
30	1000		62.0	62.0	62.0	69.5	72.5	72.5	73.6	78.0	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6
31	500		62.0	62.0	62.0	69.5	72.5	72.5	73.6	78.0	80.4	80.5	80.6	80.6	80.6	80.6	80.6	80.6	80.6

TOTAL NUMBER OF OBSERVATIONS: 240



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 77-86  
MONTH: NOV HOURS (LST): ALL

CEILING			VISIBILITY IN STATUTE MILES															
IN FEET	1	GE	GE	GE	GE	GE	2 1/2	GE	GE	GE	GE	GE	GE	GE	GE	GE	GE	
		1/2	3/4	1	1 1/4	1 1/2		2	1 1/2	1 1/4	1	3/4	5/8	1/2	5/16	1/4	0	
NO	CEIL	1	1	13.1	13.2	13.2	13.4	14.1	14.1	14.2	15.2	15.5	15.5	15.5	15.5	15.7	15.9	
GE	00000	1	1	14.1	14.1	14.1	14.6	15.1	15.1	15.4	16.4	16.6	16.6	16.6	16.6	16.7	16.9	
GE	10000	1	1	14.1	14.1	14.1	14.6	15.1	15.1	15.4	16.4	16.6	16.6	16.6	16.6	16.7	16.9	
GE	16000	1	1	14.1	14.1	14.1	14.6	15.1	15.1	15.4	16.4	16.6	16.6	16.6	16.6	16.7	16.9	
GE	14000	1	1	14.1	14.1	14.1	14.6	15.1	15.1	15.4	16.4	16.6	16.6	16.6	16.6	16.7	16.9	
GE	12000	1	1	14.1	14.1	14.1	14.6	15.1	15.1	15.4	16.4	16.6	16.6	16.6	16.6	16.7	16.9	
GE	10000	1	1	20.2	20.2	20.2	21.3	22.3	22.3	22.7	24.1	24.6	24.7	24.8	24.8	24.9	25.0	
GE	90000	1	1	20.2	20.2	20.2	21.3	22.3	22.3	22.7	24.1	24.6	24.7	24.8	24.8	24.9	25.0	
GE	50000	1	1	20.2	20.2	20.2	21.3	22.3	22.3	22.7	24.1	24.6	24.7	24.8	24.8	24.9	25.0	
GE	70000	1	1	20.2	20.2	20.2	21.3	22.3	22.3	22.7	24.1	24.6	24.7	24.8	24.8	24.9	25.0	
GE	60000	1	1	20.2	20.2	20.2	21.4	22.4	22.4	22.9	24.3	24.8	24.9	24.9	25.1	25.2	25.4	
GE	50000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	40000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	30000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	20000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	10000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5	24.0	25.4	25.9	26.1	26.1	26.2	26.2	26.6	
GE	00000	1	1	21.3	21.3	21.3	22.4	23.5	23.5									

TOTAL NUMBER OF OBSERVATIONS: 2749



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(IST): 0000-0200

CEILING IN FEET	GE	VISIBILITY IN STATUTE MILES															
		GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEILING	0.7	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
GE 20000	0.3	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
GE 18000	0.3	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
GE 16000	0.3	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
GE 14000	0.3	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
GE 12000	0.3	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
GE 10000	0.3	23.3	23.3	23.3	24.6	26.2	27.6	28.6	31.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 9000	0.3	23.3	23.3	23.3	24.6	26.2	27.6	28.6	31.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 8000	0.3	23.3	23.3	23.3	24.6	26.2	27.6	28.6	31.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 7000	0.3	23.3	23.3	23.3	24.6	26.2	27.6	28.6	31.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 6000	0.3	23.3	23.3	23.3	24.6	26.2	27.6	28.6	31.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 5000	0.3	24.6	24.6	24.6	25.6	27.2	28.6	29.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 4000	0.3	24.6	24.6	24.6	25.6	27.2	28.6	29.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 3000	0.3	24.6	24.6	24.6	25.6	27.2	28.6	29.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 2000	0.3	24.6	24.6	24.6	25.6	27.2	28.6	29.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 1000	0.3	24.6	24.6	24.6	25.6	27.2	28.6	29.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 0000	0.3	24.6	24.6	24.6	25.6	27.2	28.6	29.9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
GE 20000	0.3	27.6	27.6	27.6	29.9	31.2	33.2	34.6	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 18000	0.3	27.6	27.6	27.6	29.9	31.2	33.2	34.6	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 16000	0.3	27.6	27.6	27.6	29.9	31.2	33.2	34.6	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 14000	0.3	27.6	27.6	27.6	29.9	31.2	33.2	34.6	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 12000	0.3	27.6	27.6	27.6	29.9	31.2	33.2	34.6	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
GE 10000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 9000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 8000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 7000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 6000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 5000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 4000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 3000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 2000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 1000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 0000	0.3	44.9	44.9	44.9	47.5	51.2	53.2	56.5	61.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
GE 20000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 18000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 16000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 14000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 12000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 10000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 9000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 8000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 7000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 6000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 5000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 4000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 3000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 2000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 1000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
GE 0000	0.3	51.2	51.2	51.2	53.2	56.5	58.1	61.5	66.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1

TOTAL NUMBER OF OBSERVATIONS: 101



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFIP WEATHER SERVICE/MSC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275601 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS (LST): 0300-0500

CEILING IN FEET	VISIBILITY IN STATUTE MILES														
	1	1/2	1/4	1/8	1/16	1/32	1/64	1/128	1/256	1/512	1/1024	1/2048	1/4096	1/8192	1/16384
NO CEILING	15.3	17.7	15.3	13.7	16.0	16.0	16.3	17.3	17.7	17.7	18.0	19.3	19.7	18.7	19.3
GE 1000	14.3	14.3	14.3	15.0	17.7	17.7	19.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 1600	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 1800	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 1900	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 2000	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 2200	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 2400	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 2600	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 2800	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 3000	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 3200	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 3400	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 3600	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 3800	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 4000	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 4200	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 4400	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 4600	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 4800	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 5000	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 5200	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 5400	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 5600	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 5800	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 6000	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 6200	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 6400	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 6600	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 6800	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 7000	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 7200	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 7400	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 7600	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 7800	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 8000	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 8200	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 8400	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 8600	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 8800	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 9000	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 9200	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 9400	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 9600	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 9800	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0
GE 10000	14.3	14.3	14.3	15.0	17.7	17.7	18.0	19.0	19.3	19.7	19.7	19.7	20.3	20.3	21.0

TOTAL NUMBER OF OBSERVATIONS: 70



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(EST): 0600-0600

TOTAL NUMBER OF OBSERVATIONS: 244



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM FOURLY OBSERVATIONS

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 0900-1100

CEILING	VISIBILITY IN STATUTE MILES																
	IN FEET	GE	GF	GE	GF	GE	GF	GE	GF	GE	GF	GE	GF	GE	GF	GE	
		10'	2'	3'	4'	5'	6'	7 1/2'	8'	9'	10'	11 1/4'	12'	13 1/4'	14'	15'	16'
NO CEIL	1	1.4	14.3	14.5	14.6	16.1	17.5	17.9	18.2	19.3	19.6	20.7	21.1	21.1	21.4	21.4	21.1
GE 20' 00'	1.4	15.4	15.7	15.7	17.1	18.6	18.9	19.3	20.4	20.7	21.1	21.1	21.4	21.4	21.4	22.1	
GE 18' 00'	1.4	15.4	15.7	15.7	17.1	18.6	18.9	19.3	20.4	20.7	21.1	21.1	21.4	21.4	21.4	22.1	
GE 16' 00'	1.4	15.4	15.7	15.7	17.1	18.6	18.9	19.3	20.4	20.7	21.1	21.1	21.4	21.4	21.4	22.1	
GE 14' 00'	1.4	15.4	15.7	15.7	17.1	18.6	18.9	19.3	20.4	20.7	21.1	21.1	21.4	21.4	21.4	22.1	
GE 12' 00'	1.4	15.4	15.7	15.7	17.1	18.6	18.9	19.3	20.4	20.7	21.1	21.1	21.4	21.4	21.4	22.1	
GE 10' 00'	1.4	24.1	24.6	24.6	26.4	26.9	29.3	31.7	33.2	33.6	33.6	33.9	34.3	34.3	34.6	35.4	
GE 9' 00'	1.4	24.3	24.6	24.6	26.4	26.9	29.3	31.7	33.2	33.6	33.6	33.9	34.3	34.3	34.6	35.4	
GE 8' 00'	1.4	24.3	24.6	24.6	26.4	26.9	29.3	31.7	33.2	33.6	33.6	33.9	34.3	34.3	34.6	35.4	
GE 7' 00'	1.4	24.3	24.6	24.6	26.4	26.9	29.3	31.7	33.2	33.6	33.6	33.9	34.3	34.3	34.6	35.4	
GE 6' 00'	1.4	24.6	25.0	25.0	26.4	26.9	29.3	31.7	33.2	33.6	33.6	33.9	34.3	34.3	34.6	35.7	
GE 5' 00'	1.4	24.6	25.0	25.0	26.4	26.9	29.3	31.7	33.2	33.6	33.6	33.9	34.3	34.3	34.6	35.7	
GE 4' 00'	1.4	24.6	25.0	25.0	26.4	26.9	29.3	31.7	33.2	33.6	33.6	33.9	34.3	34.3	34.6	35.7	
GE 4' 00'	1.4	24.6	25.0	25.0	26.4	26.9	29.3	31.7	33.2	33.6	33.6	33.9	34.3	34.3	34.6	35.7	
GE 3' 00'	1.4	26.1	26.4	26.4	28.2	28.7	31.1	32.5	35.0	35.4	35.7	35.7	36.1	36.1	36.4	37.5	
GE 2' 00'	1.4	27.9	27.9	27.9	29.6	32.7	33.2	34.6	37.5	37.9	37.9	38.2	38.6	38.6	38.9	40.0	
GE 1' 00'	1.4	28.6	28.9	28.9	30.7	33.9	34.3	35.7	38.6	38.9	39.2	39.2	39.6	39.6	40.0	41.1	
GE 1' 00'	1.4	31.4	31.7	31.7	33.6	37.1	37.5	38.9	42.1	42.5	42.5	42.9	43.2	43.2	43.6	44.6	
GE 1' 00'	1.4	31.5	31.7	31.7	33.6	37.1	37.5	38.9	42.1	42.5	42.5	42.9	43.2	43.2	43.6	44.6	
GE 1' 00'	1.4	34.6	34.6	34.6	36.4	40.7	41.1	42.5	46.1	46.4	46.4	46.8	47.1	47.1	47.5	48.6	
GE 1' 00'	1.4	35.9	35.7	35.7	41.4	45.7	46.1	48.2	51.6	52.1	52.5	52.5	53.2	53.2	53.6	54.6	
GE 1' 00'	1.4	42.1	42.3	42.3	46.1	51.4	51.8	54.3	58.2	58.9	59.2	59.3	60.2	60.3	60.4	61.4	
GE 1' 00'	1.4	43.9	44.3	44.3	47.9	53.2	53.6	56.1	62.0	62.7	63.1	63.1	63.8	63.8	64.1	65.2	
GE 1' 00'	1.4	45.4	45.7	45.7	49.6	55.7	56.1	58.5	63.9	64.6	65.3	65.3	65.7	65.7	66.1	67.1	
GE 1' 00'	1.4	46.4	46.8	46.8	51.1	58.2	58.6	61.4	66.4	67.1	67.5	67.5	68.2	68.2	68.6	69.6	
GE 1' 00'	1.4	49.3	49.6	49.6	55.4	64.6	65.0	69.6	76.4	77.1	77.5	77.5	79.3	79.6	83.0	81.1	
GE 1' 00'	1.4	50.4	50.7	50.7	56.4	66.4	66.8	71.8	79.6	81.1	81.4	81.8	83.2	83.6	87.9	85.0	
GE 1' 00'	1.4	50.7	51.1	51.1	56.8	66.8	67.6	73.6	82.9	84.6	85.3	85.4	87.1	87.5	87.9	88.9	
GE 1' 00'	1.4	50.7	51.1	51.1	56.8	66.8	67.6	73.6	82.9	84.6	85.3	85.4	87.1	87.5	87.9	88.9	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0	87.5	87.6	87.7	90.3	90.7	92.5	94.3	
GE 1' 00'	1.4	50.7	51.4	51.4	57.1	68.6	68.9	74.6	85.0								

TOTAL NUMBER OF OBSERVATIONS: 740



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): 1200-1400

CELLING		VISIBILITY IN STATUTE MILES															
IN FEET	1	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO	CELL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
01	00000	0.7	20.9	21.3	21.3	21.6	23.3	23.6	24.3	26.0	26.0	26.4	26.4	26.4	27.0	27.0	27.0
02	00000	0.7	27.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
03	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
04	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
05	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
06	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
07	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
08	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
09	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
10	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
11	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
12	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
13	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
14	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
15	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
16	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
17	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
18	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
19	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
20	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
21	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
22	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
23	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
24	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
25	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
26	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
27	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
28	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
29	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
30	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
31	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
32	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
33	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
34	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
35	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
36	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
37	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
38	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
39	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
40	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
41	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
42	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
43	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
44	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
45	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
46	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
47	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
48	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
49	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
50	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
51	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
52	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
53	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
54	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
55	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
56	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
57	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
58	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
59	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
60	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
61	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
62	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
63	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
64	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
65	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
66	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
67	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
68	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
69	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
70	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
71	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
72	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
73	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7	29.1	29.1	29.4	30.1	30.1	30.1
74	00000	0.7	23.3	23.6	23.6	24.0	25.7	26.0	26.7	28.4	28.7						

TOTAL NUMBER OF OBSERVATIONS: 240



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LOCAL): 1500-1700

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	1	GE 1/2	GE 1/4	GE 1/8	GE 3/16	GE 1/2	GE 1/4	GE 1/8	GE 3/16	GE 1/2	GE 1/4	GE 1/8	GE 3/16	GE 1/2	GE 1/4	GE 1/8
NO CLIC 1		18.8	19.1	19.4	19.7	21.7	21.7	22.0	22.0	23.4	23.4	23.4	23.4	23.4	23.4	24.0
GE 20001		22.7	22.7	22.7	23.7	25.7	25.7	26.0	27.0	27.3	27.3	27.3	27.3	27.3	27.3	28.0
GE 18001		22.7	22.7	22.7	23.7	25.7	25.7	26.0	27.0	27.3	27.3	27.3	27.3	27.3	27.3	28.0
GE 16001		22.7	22.7	22.7	23.7	25.7	25.7	26.0	27.0	27.3	27.3	27.3	27.3	27.3	27.3	28.0
GE 14001		22.7	22.7	22.7	23.7	25.7	25.7	26.0	27.0	27.3	27.3	27.3	27.3	27.3	27.3	28.0
GE 12001		22.7	22.7	22.7	23.7	25.7	25.7	26.0	27.0	27.3	27.3	27.3	27.3	27.3	27.3	28.0
GE 10001		33.2	34.5	34.5	36.5	40.1	40.1	41.1	43.4	44.1	44.4	44.4	45.1	45.4	45.4	46.1
GE 9001		33.2	34.5	34.5	36.5	40.1	40.1	41.1	43.4	44.1	44.4	44.4	45.1	45.4	45.4	46.1
GE 8001		33.2	34.5	34.5	36.5	40.1	40.1	41.1	43.4	44.1	44.4	44.4	45.1	45.4	45.4	46.1
GE 7001		33.2	34.5	34.5	36.5	40.1	40.1	41.1	43.4	44.1	44.4	44.4	45.1	45.4	45.4	46.1
GE 6001		33.2	34.5	34.5	36.5	40.1	40.1	41.1	43.4	44.1	44.4	44.4	45.1	45.4	45.4	46.1
GE 5001		33.6	34.9	34.9	36.8	40.5	40.5	41.4	43.8	44.4	44.7	44.7	45.4	45.7	45.7	46.4
GE 4501		33.6	34.9	34.9	36.8	40.5	40.5	41.4	43.8	44.4	44.7	44.7	45.4	45.7	45.7	46.4
GE 4001		34.9	36.2	36.2	38.5	42.1	42.1	43.1	45.4	46.1	46.4	46.4	47.0	47.4	47.4	48.0
GE 3501		34.9	36.2	36.2	38.5	42.1	42.1	43.1	45.4	46.1	46.4	46.4	47.0	47.4	47.4	48.0
GE 3001		36.2	37.8	37.8	40.1	43.8	43.8	44.7	47.0	47.7	47.7	47.7	48.0	48.0	48.0	49.7
GE 2501		37.8	39.5	39.5	41.8	45.4	45.4	46.4	48.7	49.3	49.7	49.7	50.3	50.7	50.7	51.3
GE 2001		40.1	40.1	40.1	44.4	48.0	48.0	49.0	52.0	52.6	52.7	53.0	53.6	53.9	53.9	54.6
GE 1801		40.6	40.8	42.8	45.4	49.3	49.3	50.3	53.3	53.9	54.3	54.3	54.9	55.3	55.3	55.9
GE 1601		42.1	44.1	44.1	46.7	51.6	51.6	52.6	56.3	56.9	57.2	57.2	57.9	58.2	58.2	58.9
GE 1401		47.4	49.7	49.7	53.3	59.2	59.2	60.2	64.1	64.9	65.1	65.1	65.9	66.1	66.1	66.8
GE 1201		49.3	51.6	51.6	56.3	62.2	62.2	64.5	68.8	69.7	70.1	70.1	73.7	71.1	71.1	71.7
GE 1001		50.3	52.6	52.6	57.6	64.5	64.5	65.9	70.1	71.1	71.4	71.4	72.7	72.7	72.7	73.4
GE 901		51.6	52.6	53.6	58.9	66.1	66.1	67.4	72.4	73.4	73.7	73.7	74.3	74.7	75.0	75.7
GE 801		52.6	54.3	54.3	59.9	67.4	67.4	69.1	74.0	75.1	75.3	75.3	76.0	76.3	76.6	77.3
GE 701		53.6	55.3	55.3	61.5	70.4	70.4	72.0	77.3	81.3	81.3	81.3	82.6	82.9	83.2	83.9
GE 601		55.3	55.6	55.6	61.8	71.1	71.1	73.4	81.3	84.2	85.9	85.9	86.8	87.8	88.2	88.8
GE 501		55.3	55.6	55.6	61.8	71.1	71.1	73.7	82.2	85.9	87.5	87.5	89.8	91.1	91.4	92.1
GE 401		55.3	55.6	55.6	62.2	71.4	71.4	74.0	84.2	88.8	91.4	91.4	94.1	95.7	96.1	97.0
GE 301		55.3	55.6	55.6	62.2	71.4	71.4	74.0	84.2	88.8	91.4	91.4	94.1	95.7	97.4	98.7
GE 201		55.3	55.6	55.6	62.2	71.4	71.4	74.0	84.2	88.8	91.4	91.4	94.1	95.7	97.4	98.7
GE 101		55.3	55.6	55.6	62.2	71.4	71.4	74.0	84.2	88.8	91.4	91.4	94.1	95.7	97.4	98.7
GE 1		55.3	55.6	55.6	62.2	71.4	71.4	74.0	84.2	88.8	91.4	91.4	94.1	95.7	97.4	98.7

TOTAL NUMBER OF OBSERVATIONS: 334



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-84  
MONTH: DEC HOURS(LST): 1800-2000

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 1 1/2	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15
NO CEIL	18.3	18.3	18.3	18.7	21.0	21.7	21.7	21.7	24.3	24.3	24.3	24.3	24.7	24.7	24.7	24.7
GE 20000	19.3	19.3	19.3	19.3	21.7	22.3	22.3	24.3	25.0	25.0	25.0	25.0	25.3	25.3	25.3	25.3
GE 18000	19.3	19.3	19.3	19.3	21.7	22.3	22.3	24.3	25.0	25.0	25.0	25.0	25.3	25.3	25.3	25.3
GE 16000	19.3	19.3	19.3	19.3	21.7	22.3	22.3	24.3	25.0	25.0	25.0	25.0	25.3	25.3	25.3	25.3
GE 14000	19.3	19.3	19.3	19.3	21.7	22.3	22.3	24.3	25.0	25.0	25.0	25.0	25.3	25.3	25.3	25.3
GE 12000	19.3	19.3	19.3	19.3	21.7	22.3	22.3	24.3	25.0	25.0	25.0	25.0	25.3	25.3	25.3	25.3
GE 10000	32.7	32.7	32.7	34.7	37.7	38.3	39.0	42.3	43.3	43.3	43.3	43.3	43.7	43.7	43.7	43.7
GE 9000	32.7	32.7	32.7	34.7	37.7	38.3	39.0	42.3	43.3	43.3	43.3	43.3	43.7	43.7	43.7	43.7
GE 8000	32.7	32.7	32.7	34.7	37.7	38.3	39.0	42.3	43.3	43.3	43.3	43.3	43.7	43.7	43.7	43.7
GE 7000	32.7	32.7	32.7	34.7	37.7	38.3	39.0	42.3	43.3	43.3	43.3	43.3	43.7	43.7	43.7	43.7
GE 6000	32.7	32.7	32.7	34.7	37.7	38.3	39.0	42.3	43.3	43.3	43.3	43.3	43.7	43.7	43.7	43.7
GE 5000	33.0	33.0	33.0	35.0	38.0	38.7	39.3	42.7	43.7	43.7	43.7	43.7	44.0	44.0	44.0	44.0
GE 4500	33.0	33.0	33.0	35.0	38.0	38.7	39.3	42.7	43.7	43.7	43.7	43.7	44.0	44.0	44.0	44.0
GE 4000	33.3	33.3	33.3	35.3	38.3	39.0	39.7	43.0	44.0	44.0	44.0	44.0	44.3	44.3	44.3	44.3
GE 3500	33.7	33.7	33.7	35.7	38.7	39.3	40.0	43.3	44.3	44.3	44.3	44.3	44.7	44.7	44.7	44.7
GE 3000	34.3	34.3	34.3	37.0	40.0	40.7	41.3	44.7	45.7	45.7	45.7	45.7	46.0	46.0	46.0	46.0
GE 2500	46.3	46.3	46.3	48.3	51.7	52.7	53.3	56.7	57.7	57.7	57.7	57.7	58.0	58.0	58.0	58.0
GE 2000	46.3	46.3	46.3	48.3	51.7	52.7	53.3	56.7	57.7	57.7	57.7	57.7	58.0	58.0	58.0	58.0
GE 1500	50.3	50.3	50.3	55.0	61.0	61.7	62.3	66.7	68.7	68.7	68.7	68.7	69.0	69.3	69.3	69.3
GE 1000	51.3	51.3	51.3	56.0	61.3	62.3	63.3	68.0	70.2	70.3	70.3	70.3	70.7	71.0	71.0	71.0
GE 900	52.3	52.3	52.3	57.3	61.3	62.3	63.3	68.0	70.2	70.3	70.3	70.3	70.7	71.0	71.0	71.0
GE 800	52.7	52.7	52.7	58.0	61.3	62.3	63.3	68.0	70.2	70.3	70.3	70.3	70.7	71.0	71.0	71.0
GE 700	52.7	52.7	52.7	58.0	61.3	62.3	63.3	68.0	70.2	70.3	70.3	70.3	70.7	71.0	71.0	71.0
GE 600	52.7	52.7	52.7	58.0	61.3	62.3	63.3	68.0	70.2	70.3	70.3	70.3	70.7	71.0	71.0	71.0
GE 500	52.7	52.7	52.7	58.0	61.3	62.3	63.3	68.0	70.2	70.3	70.3	70.3	70.7	71.0	71.0	71.0
GE 400	56.7	56.7	56.7	64.3	71.3	72.7	73.7	76.0	81.0	81.0	81.0	81.0	81.3	81.3	81.3	81.3
GE 300	56.7	56.7	56.7	64.3	71.3	72.7	73.7	76.0	81.0	81.0	81.0	81.0	81.3	81.3	81.3	81.3
GE 200	56.7	56.7	56.7	64.3	71.3	72.7	73.7	76.0	81.0	81.0	81.0	81.0	81.3	81.3	81.3	81.3
GE 100	56.7	56.7	56.7	64.3	71.3	72.7	73.7	76.0	81.0	81.0	81.0	81.0	81.3	81.3	81.3	81.3
GE 0	56.7	56.7	56.7	64.3	71.3	72.7	73.7	76.0	81.0	81.0	81.0	81.0	81.3	81.3	81.3	81.3

TOTAL NUMBER OF OBSERVATIONS: 300



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAL  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS/LSST: 2100-2300

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 10	GE 6	GE 5	GE 4	GE 3	GE 2 1/2	GE 2	GE 1 1/2	GE 1 1/4	GE 1	GE 3/4	GE 5/8	GE 1/2	GE 5/16	GE 1/4
NO CEIL		17.1	17.1	17.1	17.4	20.1	21.1	21.7	23.7	23.7	24.1	24.3	24.3	25.0	25.0	25.7
GE 2000	17.8	17.8	17.8	18.1	20.7	21.7	22.4	24.3	24.3	25.0	25.0	25.0	25.0	25.7	25.7	26.3
GE 1800	17.8	17.8	17.8	18.1	20.7	21.7	22.4	24.3	24.3	25.0	25.0	25.0	25.0	25.7	25.7	26.3
GE 1600	17.8	17.8	17.8	18.1	20.7	21.7	22.4	24.3	24.3	25.0	25.0	25.0	25.0	25.7	25.7	26.3
GE 1400	17.8	17.8	17.8	18.1	20.7	21.7	22.4	24.3	24.3	25.0	25.0	25.0	25.0	25.7	25.7	26.3
GE 1200	17.8	17.8	17.8	18.1	20.7	21.7	22.4	24.3	24.3	25.0	25.0	25.0	25.0	25.7	25.7	26.3
GE 1000	26.3	26.3	26.3	28.6	32.6	34.2	35.5	39.1	39.1	39.1	39.1	39.1	39.1	40.5	40.5	41.1
GE 900	26.3	26.3	26.3	28.6	32.6	34.2	35.5	39.1	39.1	39.1	39.1	39.1	39.1	40.5	40.5	41.1
GE 800	26.3	26.3	26.3	28.6	32.6	34.2	35.5	39.1	39.1	39.1	39.1	39.1	39.1	40.5	40.5	41.1
GE 700	26.3	26.3	26.3	28.6	32.6	34.2	35.5	39.1	39.1	39.1	39.1	39.1	39.1	40.5	40.5	41.1
GE 600	26.3	26.3	26.3	28.6	32.6	34.2	35.5	39.1	39.1	39.1	39.1	39.1	39.1	40.5	40.5	41.1
GE 500	27.6	27.6	27.6	29.9	33.9	36.2	37.5	40.5	40.5	40.5	40.5	40.5	40.5	41.1	41.1	41.8
GE 450	27.6	27.6	27.6	29.9	33.9	36.2	37.5	40.5	40.5	40.5	40.5	40.5	40.5	41.1	41.1	41.8
GE 400	27.6	27.6	27.6	29.9	33.9	36.2	37.5	40.5	40.5	40.5	40.5	40.5	40.5	41.1	41.1	41.8
GE 350	28.6	28.6	28.6	30.9	34.9	37.5	37.5	41.4	41.4	41.4	41.4	41.4	41.4	42.1	42.1	43.4
GE 300	28.6	28.6	28.6	30.9	34.9	37.5	37.5	41.4	41.4	41.4	41.4	41.4	41.4	42.1	42.1	43.4
GE 250	29.9	29.9	29.9	32.6	37.5	39.1	40.5	44.7	44.7	44.7	44.7	44.7	44.7	45.4	45.4	46.7
GE 200	32.6	32.6	32.6	35.5	40.5	42.1	43.4	47.4	47.4	47.4	47.4	47.4	47.4	48.1	48.1	49.3
GE 180	34.2	34.2	34.2	37.5	42.1	43.4	44.7	48.1	48.1	48.1	48.1	48.1	48.1	48.8	48.8	50.1
GE 160	37.5	37.5	37.5	41.1	46.4	48.1	49.3	53.2	53.2	53.2	53.2	53.2	53.2	53.9	53.9	55.3
GE 140	43.4	43.4	43.4	46.7	52.6	54.2	55.6	59.9	59.9	59.9	59.9	59.9	59.9	60.9	60.9	62.2
GE 120	48.4	48.4	48.4	53.3	59.9	61.5	62.8	67.1	67.1	67.1	67.1	67.1	67.1	68.8	68.8	70.1
GE 100	50.1	50.1	50.1	55.2	61.5	63.5	64.8	69.1	69.1	69.1	69.1	69.1	69.1	70.7	70.7	72.0
GE 90	51.2	51.2	51.2	56.9	64.1	65.8	67.1	71.7	71.7	71.7	71.7	71.7	71.7	73.4	73.4	74.7
GE 80	52.6	52.6	52.6	58.2	65.8	67.4	68.6	73.7	73.7	73.7	73.7	73.7	73.7	75.4	75.4	76.7
GE 70	53.9	53.9	53.9	60.5	67.5	69.1	70.4	75.7	75.7	75.7	75.7	75.7	75.7	77.4	77.4	78.7
GE 60	54.6	54.6	54.6	61.8	69.1	70.7	72.0	77.3	77.3	77.3	77.3	77.3	77.3	79.0	79.0	80.3
GE 50	54.6	54.6	54.6	62.5	70.7	72.0	73.4	78.7	78.7	78.7	78.7	78.7	78.7	80.3	80.3	81.6
GE 40	54.6	54.6	54.6	62.5	71.7	73.0	74.3	79.6	79.6	79.6	79.6	79.6	79.6	81.2	81.2	82.5
GE 30	54.6	54.6	54.6	62.5	71.7	73.0	74.3	79.6	79.6	79.6	79.6	79.6	79.6	81.2	81.2	82.5
GE 20	54.6	54.6	54.6	62.5	71.7	73.0	74.3	79.6	79.6	79.6	79.6	79.6	79.6	81.2	81.2	82.5
GE 10	54.6	54.6	54.6	62.5	71.7	73.0	74.3	79.6	79.6	79.6	79.6	79.6	79.6	81.2	81.2	82.5
GE 0	54.6	54.6	54.6	62.5	71.7	73.0	74.3	79.6	79.6	79.6	79.6	79.6	79.6	81.2	81.2	82.5

TOTAL NUMBER OF OBSERVATIONS: 324



PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VILIBILITY  
FROM HOURLY OBSERVATIONS

PERIOD OF RECORD: 77-86  
MONTH: DEC HOURS(LST): ALL

TOTAL NUMBER OF OBSERVATIONS: 2379

TOTAL NUMBER OF OBSERVATIONS: 2379



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF CEILING VERSUS VISIBILITY  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275650 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-87  
MONTH: ALL HOURS(IST): ALL

CEILING IN FEET	VISIBILITY IN STATUTE MILES															
	GE 1	GE 2	GE 3	GE 4	GE 5	GE 6	GE 7	GE 8	GE 9	GE 10	GE 11	GE 12	GE 13	GE 14	GE 15	GE 16
NO CEIL	.7	34.1	34.1	34.1	34.2	36.3	36.4	36.8	37.7	38.0	38.2	38.3	38.4	38.5	38.6	38.9
GE 2000	.7	36.7	36.8	36.8	37.7	39.2	39.2	39.7	40.7	41.0	41.2	41.3	41.4	41.6	41.6	41.9
GE 1500	.3	36.7	36.8	36.8	37.7	39.2	39.2	39.7	40.7	41.0	41.2	41.3	41.4	41.6	41.6	41.9
GE 1000	.3	36.7	36.8	36.8	37.7	39.2	39.2	39.7	40.7	41.0	41.2	41.3	41.4	41.6	41.6	41.9
GE 800	.7	36.7	36.8	36.8	37.7	39.2	39.2	39.7	40.7	41.0	41.2	41.3	41.4	41.6	41.6	41.9
GE 600	.3	36.7	36.8	36.8	37.7	39.2	39.2	39.7	40.7	41.0	41.2	41.3	41.4	41.6	41.6	41.9
GE 400	.7	49.9	51.0	50.0	51.6	54.0	54.2	55.0	56.8	57.3	57.5	57.7	57.8	58.1	58.2	58.5
GE 300	.7	49.9	51.0	50.0	51.6	54.0	54.2	55.0	56.8	57.3	57.5	57.7	57.8	58.1	58.2	58.5
GE 200	.3	49.9	51.0	50.0	51.6	54.0	54.2	55.0	56.8	57.3	57.5	57.7	57.8	58.1	58.2	58.5
GE 100	.7	49.9	51.0	50.0	51.6	54.0	54.2	55.0	56.8	57.3	57.5	57.7	57.8	58.1	58.2	58.5
GE 50	.4	53.2	53.5	53.5	52.1	54.5	54.7	55.5	57.3	57.7	58.0	58.2	58.3	58.6	58.7	59.0
GE 30	.4	53.2	53.5	53.5	52.1	54.5	54.7	55.5	57.3	57.7	58.0	58.2	58.3	58.6	58.7	59.0
GE 20	.4	53.2	53.5	53.5	52.1	54.5	54.7	55.5	57.3	57.7	58.0	58.2	58.3	58.6	58.7	59.0
GE 15	.4	53.2	53.5	53.5	52.1	54.5	54.7	55.5	57.3	57.7	58.0	58.2	58.3	58.6	58.7	59.0
GE 10	.4	53.2	53.5	53.5	52.1	54.5	54.7	55.5	57.3	57.7	58.0	58.2	58.3	58.6	58.7	59.0
GE 5	.4	53.2	53.5	53.5	52.1	54.5	54.7	55.5	57.3	57.7	58.0	58.2	58.3	58.6	58.7	59.0
GE 2	.4	53.2	53.5	53.5	52.1	54.5	54.7	55.5	57.3	57.7	58.0	58.2	58.3	58.6	58.7	59.0
GE 1	.4	53.2	53.5	53.5	52.1	54.5	54.7	55.5	57.3	57.7	58.0	58.2	58.3	58.6	58.7	59.0
GE 0	.4	53.2	53.5	53.5	52.1	54.5	54.7	55.5	57.3	57.7	58.0	58.2	58.3	58.6	58.7	59.0
GE 2500	.4	61.7	61.9	61.9	63.8	66.6	66.9	67.6	69.7	70.2	70.5	70.7	70.9	71.1	71.2	71.6
GE 2000	.4	64.1	64.3	64.4	66.4	69.5	69.7	70.7	72.7	73.2	73.5	73.7	73.9	74.1	74.2	74.6
GE 1500	.4	65.1	65.2	65.3	67.4	70.5	70.8	71.6	73.8	74.3	74.6	74.8	75.0	75.3	75.4	75.7
GE 1000	.4	67.1	67.2	67.3	69.5	72.6	73.0	74.1	76.2	76.6	77.1	77.3	77.5	77.7	77.8	78.2
GE 800	.5	70.1	70.2	70.3	72.9	76.6	76.9	78.1	80.5	81.1	81.4	81.7	81.9	82.1	82.2	82.6
GE 600	.5	71.9	72.1	72.1	75.0	79.2	79.5	80.8	83.4	84.1	84.5	84.7	84.9	85.2	85.3	85.7
GE 400	.5	72.3	72.3	72.3	75.6	79.9	80.2	81.7	84.3	85.0	85.4	85.6	85.8	86.1	86.2	86.6
GE 300	.5	73.1	73.3	73.3	76.5	81.0	81.3	82.8	85.6	86.4	86.7	87.0	87.2	87.5	87.6	88.0
GE 200	.5	73.4	73.7	73.7	77.1	81.6	82.2	83.8	86.7	87.5	87.8	88.1	88.4	88.7	88.8	89.2
GE 100	.5	74.2	74.5	74.5	78.3	83.4	83.8	85.8	89.4	90.3	90.7	91.0	91.2	91.5	91.7	92.3
GE 50	.5	74.4	74.7	74.8	78.7	83.9	84.4	86.6	90.5	91.7	92.0	92.2	92.4	92.7	92.9	93.9
GE 30	.5	74.7	75.0	75.0	79.1	84.6	85.1	87.5	91.9	93.2	94.3	94.6	94.9	95.3	95.5	96.0
GE 20	.5	74.7	75.0	75.1	79.2	84.6	85.3	87.9	92.6	94.0	95.1	95.4	95.7	96.1	96.4	97.1
GE 15	.5	74.7	75.0	75.1	79.2	84.6	85.3	87.9	92.6	94.0	95.1	95.4	95.7	96.1	96.4	97.1
GE 10	.5	74.7	75.0	75.1	79.2	84.6	85.3	87.9	92.6	94.0	95.1	95.4	95.7	96.1	96.4	97.1
GE 5	.5	74.7	75.0	75.1	79.2	84.6	85.3	87.9	92.6	94.0	95.1	95.4	95.7	96.1	96.4	97.1
GE 2	.5	74.7	75.0	75.1	79.2	84.6	85.3	87.9	92.6	94.0	95.1	95.4	95.7	96.1	96.4	97.1
GE 1	.5	74.7	75.0	75.1	79.2	84.6	85.3	87.9	92.6	94.0	95.1	95.4	95.7	96.1	96.4	97.1
GE 0	.5	74.7	75.0	75.1	79.2	84.6	85.3	87.9	92.6	94.0	95.1	95.4	95.7	96.1	96.4	97.1

TOTAL NUMBER OF OBSERVATIONS: 26148



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JAN

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	15.0			2.7	2.3	1.7	3.7		2.0	15.0	56.7	7.7	300
03-05	15.8			2.6	1.3	2.0	2.0		3.0	14.8	58.2	7.8	304
06-08	16.7			1.7	2.0		3.7		3.7	13.9	58.2	7.7	294
09-11	11.6			2.2	3.3	1.1	3.3		5.5	14.2	56.9	8.1	275
12-14	14.3			3.4	3.0	1.7	5.4		6.7	9.1	56.3	7.5	298
15-17	13.8			3.9	3.3	1.0	2.0		5.9	13.2	56.9	7.8	304
18-20	21.9			2.3	3.3	.3	2.3		7.3	11.9	54.6	7.2	302
21-23	21.0			1.0	3.3	1.0	3.0		3.6	13.6	53.3	7.2	302
TOTALS	16.4			2.5	2.7	1.1	3.2		4.3	13.2	56.6	7.6	2379

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	32.6			1.5	2.2	1.5	2.6		5.1	10.6	44.3	6.1	273
03-05	30.6			4.3	.7	1.1	1.1		3.6	10.1	48.6	6.3	278
06-08	31.4			1.1	1.8	.7	1.4		5.3	10.6	46.7	6.3	274
09-11	23.9			4.0	2.0	.8	3.2		5.7	5.9	54.5	7.1	253
12-14	26.2			4.7	3.3	1.8	2.6		5.3	5.5	47.3	6.4	275
15-17	29.1	.4		4.0	4.0	1.9	4.0		6.5	13.6	40.4	6.4	275
18-20	23.7			7.5	3.9	1.4	3.9		6.3	11.5	41.6	6.4	279
21-23	34.7	.4		2.2	4.0	.7	3.6		5.4	11.5	37.4	5.7	278
TOTALS	2.3	.1		3.7	2.7	1.2	2.8		6.2	9.9	45.1	6.3	2185



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 270950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 74-87  
MONTH: MAR

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	77.1			1.7	1.7	1.0	4.3		1.0	8.4	19.8	5.5	299
03-05	13.8			5.3	2.3	1.7	3.0		4.3	7.9	17.8	5.3	304
06-08	27.6			5.3	5.3	1.6	3.0		1.7	7.9	42.1	6.1	304
09-11	23.3	1.4		3.6	3.6	1.8	4.7		7.2	8.3	42.0	6.2	276
12-14	27.1	1.3		4.7	3.3	1.7	4.3		10.2	9.0	40.5	6.2	299
15-17	22.8	1.3		9.3	3.6	1.3	4.3		11.9	7.3	19.7	6.3	302
18-20	19.5			10.6	4.3	1.0	3.6		7.3	10.6	43.2	6.6	303
21-23	29.3			4.9	2.0	1.3	2.6		2.6	7.9	40.3	5.4	305
TOTALS	30.0	1.1		5.6	3.3	1.1	3.7		6.7	8.7	40.7	6.0	2392

STATION NUMBER: 270950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 74-87  
MONTH: APR

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	77.4			4.1	3.1	1.3	5.1		7.5	5.8	16.7	5.4	294
03-05	16.9			4.4	4.1	1.4	3.1		5.4	7.5	17.3	5.4	295
06-08	21.1	1.3		7.9	3.4	1.0	3.1		10.0	9.0	42.1	6.4	290
09-11	22.0	1.3		6.6	3.5	1.7	3.1		10.1	11.1	41.5	6.5	287
12-14	16.3	1.7		6.6	4.1	1.0	7.1		12.2	8.8	42.9	6.9	294
15-17	11.7	1.7		5.6	5.8	1.7	3.9		11.0	9.9	41.4	7.0	292
18-20	17.1			9.9	3.1	2.1	6.2		7.5	11.3	42.8	6.5	292
21-23	29.6	1.3		7.5	5.1	1.4	4.4		4.7	7.8	19.3	5.8	295
TOTALS	24.9	1.3		6.6	4.3	1.3	5.1		6.7	8.9	40.5	6.3	2339



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/FAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275951 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS   (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	44.7			6.9	3.6	2.3	3.6		7.6	4.9	26.3	4.4	304
03-05	31.1	.3		11.5	4.6	4.6	3.9		11.1	7.2	25.6	5.1	305
06-08	32.3	1.0		12.6	4.6	3.0	7.3		13.9	8.9	25.8	5.7	302
09-11	31.2	.7		14.4	7.2	3.6	5.2		13.4	10.5	23.9	5.6	306
12-14	32.3	.7		13.9	7.6	3.0	5.6		20.2	8.3	25.5	6.3	302
15-17	31.2	.7		11.5	7.5	4.9	8.9		17.0	13.1	26.2	6.5	305
18-20	34.1	1.3		11.7	7.0	3.7	7.7		21.4	9.1	23.5	6.2	298
21-23	36.5	1.3		15.0	5.6	2.0	5.2		14.4	6.2	23.9	5.2	306
TOTALS	32.9	.6		12.2	6.0	3.4	6.3		14.7	8.5	25.1	5.6	2428

STATION NUMBER: 275951 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: JUN

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS   (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	33.5	1.3		13.5	7.1	2.4	6.4		13.5	6.4	25.6	5.4	297
03-05	19.1	.7		16.4	7.2	2.7	7.5		17.3	4.4	29.4	5.3	293
06-08	15.2	2.0		13.2	5.1	3.7	7.5		12.5	8.8	26.7	6.1	296
09-11	15.3	1.0		11.6	5.8	2.4	9.5		14.7	9.8	27.2	6.3	294
12-14	5.1	.5		7.1	10.1	4.4	11.5		20.6	13.5	27.4	7.1	296
15-17	6.4			7.1	7.1	6.5	8.5		24.8	13.9	25.2	7.1	294
18-20	8.4	.7		11.8	7.7	3.7	7.4		20.9	14.5	24.9	6.5	297
21-23	12.2	1.4		15.6	7.2	3.7	4.4		17.6	13.9	26.1	6.2	295
TOTALS	11.1	.7		12.2	7.8	3.7	7.4		17.3	10.5	26.8	6.4	2362



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 75-87  
MONTH: JUL

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (UST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
01-02	15.7	.7		15.4	6.2	2.0	5.6		10.1	7.5	16.7	4.3	306
03-05	19.0	.7		17.9	7.2	2.3	5.9		10.7	8.5	17.9	4.7	307
06-08	12.7	.7		14.1	4.9	3.9	8.2		14.5	12.2	16.8	5.4	304
09-11	16.5	1.9		12.0	6.5	3.6	9.1		17.9	9.4	21.1	5.7	308
12-14	6.3	1.3		9.5	5.9	6.6	10.9		24.0	13.2	20.4	6.5	304
15-17	4.5	1.7		9.3	11.6	6.6	14.2		15.5	12.6	19.9	6.5	302
18-20	6.9	1.3		18.0	4.9	3.9	8.2		21.0	16.1	14.8	6.2	305
21-23	20.1	1.9		19.5	8.4	4.5	7.5		11.0	9.7	17.2	5.1	308
TOTALS	12.0	1.5		14.5	7.5	4.4	8.6		16.1	11.2	15.4	5.6	2444

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 75-87  
MONTH: AUG

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (UST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
01-02	40.4	.7		9.2	2.3	3.0	4.9		5.6	7.2	21.0	4.0	305
03-05	31.5	1.3		17.9	6.6	3.0	7.0		7.7	5.6	23.2	4.7	302
06-08	15.3	1.3		11.6	4.7	2.0	7.0		15.3	9.0	25.3	5.7	301
09-11	19.7	1.3		11.1	5.2	3.3	6.2		10.5	13.8	20.9	6.0	305
12-14	7.3	1.3		11.3	10.3	3.6	10.6		14.2	17.9	14.5	6.5	302
15-17	6.9	1.7		11.6	7.6	6.6	11.2		20.1	13.2	21.1	6.6	303
18-20	14.8	1.6		12.1	5.6	3.9	7.2		15.7	14.1	22.0	6.1	305
21-23	13.2	1.1		14.8	6.9	2.2	5.9		10.5	8.2	23.3	5.2	305
TOTALS	12.0	1.4		12.0	6.2	3.5	7.5		15.7	11.1	22.7	5.6	2428



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 275451 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 70-71  
MONTH: SEP

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	24.4	.3		9.6	3.6	2.8	5.2		11.5	5.2	76.9	6.0	287
03-05	31.7	.3		7.5	1.4	1.4	3.7		5.1	3.2	43.6	5.8	293
06-08	9.6			9.6	2.7	2.4	5.1		1.7	13.0	43.6	7.5	292
09-11	5.1	.3		6.8	4.1	2.7	4.7		1.2	15.9	44.1	7.7	295
12-14	5.9	.7		6.9	5.9	2.1	4.5		1.5	16.1	41.3	7.3	286
15-17	4.4	.3		6.8	4.1	5.4	7.5		1.2	15.3	41.2	7.5	294
18-20	5.1	.4		6.8	5.3	2.1	6.0		1.7	17.2	38.5	7.4	285
21-23	13.1			7.8	5.6	3.4	2.7		1.7	6.5	75.1	6.2	294
TOTALS	14.4	.3		7.6	4.1	2.4	4.9		12.4	12.2	40.6	7.0	2326

STATION NUMBER: 275451 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 70-87  
MONTH: OCT

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN	TOTAL OBS
00-02	27.0			2.0	4.3	.3	3.7		5.9	13.8	46.4	6.8	304
03-05	20.5	.3		2.3	3.6	1.0	2.6		5.5	10.3	48.4	6.9	306
06-08	17.0	.3		5.0	2.3	1.0	5.1		1.0	14.4	53.8	7.7	299
09-11	13.5	.3		6.4	1.6	1.3	2.8		6.5	17.6	52.9	7.9	306
12-14	7.7	.7		6.4	2.0	1.0	4.7		11.1	17.5	47.8	7.9	297
15-17	7.5	1.1		5.6	2.3	2.0	4.7		11.8	20.9	44.4	7.9	306
18-20	12.0	.3		7.3	4.3	3.7	2.7		6.6	16.6	47.5	7.5	301
21-23	17.5	.3		4.1	3.7	1.7	3.7		7.1	13.5	46.3	7.0	296
TOTALS	14.5	.4		5.0	3.0	1.6	3.7		7.9	15.6	48.4	7.5	2415



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM HOURLY OBSERVATIONS

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN
01-02	10.6			1.1	1.4	.7	2.1		2.1	11.1	67.5	6.2
03-04	10.6			2.4	1.4	.7	.7		2.7	13.0	68.5	8.4
05-06	9.3			1.4	.3	1.7	1.4		5.7	11.7	65.3	6.5
07-08	2.1	.4		3.9	1.4	1.4	2.8		7.0	14.0	68.1	9.0
09-10	4.3	.3		3.8	2.4	2.4	2.1		7.3	12.4	63.9	8.5
11-12	5.1			2.7	2.7	.7	3.0		6.9	12.8	65.2	8.5
13-14	3.5			3.8	1.7	1.0	2.4		7.4	10.6	68.5	8.5
15-16	12.6			2.4	3.4	1.0	2.7		7.7	8.4	65.9	8.1
TOTALS	4.9	.1		2.6	1.8	1.2	2.0		4.6	11.8	67.0	8.5

STATION NUMBER: 27595 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER												
HOURS (LST)	0	1	2	3	4	5	6	7	8	9	10	MEAN
01-02	10.9	.3		1.7	2.3	.7	2.6		4.0	11.9	59.6	7.7
03-04	10.5			3.0	1.3	1.0	2.6		3.5	12.9	62.0	8.0
05-06	12.5			2.1	2.4	.7	3.0		1.3	15.5	60.6	8.0
07-08	9.5	.4		4.2	2.1	1.4	1.8		.3	13.1	62.2	8.2
09-10	9.7			7.0	3.0	1.7	4.1		6.0	12.7	56.0	7.9
11-12	10.3	.3		4.1	3.6	.7	2.6		7.0	12.7	56.9	8.0
13-14	13.5			4.3	2.6	1.3	3.3		1.3	11.9	60.7	7.8
15-16	10.9			3.3	2.6	.3	.7		1.0	12.4	59.8	7.5
TOTALS	10.3	.1		3.6	2.5	1.0	2.6		4.1	12.9	59.7	7.9



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER  
FROM FOURLY OBSERVATIONS

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-87  
MONTH: ALL

PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER													
	HOURS (EST)	0	1	2	3	4	5	6	7	8	9	10	MEAN OBS
JAN	ALL	19.4			2.5	2.7	1.1	3.2		4.3	13.2	56.6	7.6 2379
FEB		18.3	.4		3.7	2.7	1.2	2.8		6.2	9.9	45.1	6.3 2185
MAR		20.2	.1		5.6	3.3	1.1	3.7		5.7	8.7	45.7	6.0 2392
APR		24.5	.3		6.6	4.0	1.3	5.1		7.7	8.9	40.5	6.3 2339
MAY		22.9	.8		12.2	6.0	3.4	6.3		14.9	8.5	25.1	5.6 2428
JUN		13.1	.5		12.0	7.6	3.7	7.9		17.3	10.5	26.8	6.4 2362
JUL		18.0	1.5		14.5	7.5	4.4	8.6		16.1	11.2	18.4	5.6 2444
AUG		20.0	1.4		12.0	6.2	3.5	7.5		13.7	11.1	22.7	5.6 2428
SEP		14.4	.3		7.6	4.1	2.8	4.9		10.9	12.2	40.6	7.0 2326
OCT		14.3	.4		5.0	3.0	1.6	3.7		7.4	15.6	48.4	7.5 2415
NOV		8.4	.1		2.6	1.8	1.2	2.2		4.3	11.8	67.0	8.5 2331
DEC		13.3	.1		3.8	2.5	1.0	2.6		4.1	12.9	59.7	7.9 2400
TOTALS		19.4	.5		7.4	4.3	2.2	4.9		4.9	11.2	41.0	6.7 28429



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#### TEMPERATURE AND RELATIVE HUMIDITY SUMMARIES

##### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF DAILY MAXIMUM (MINIMUM AND MEAN) TEMPERATURES

PERCENTAGE TABULATIONS PRESENTED BY 1-DEGREE FAHRENHEIT INCREMENTS PLUS THE MEAN, STAND. DEV. IATIONS AND TOTAL OBSERVATION COUNT.

THE MINIMUM TABLE ALSO INCLUDES A 33 DEGREE FAHRENHEIT VALUE.

SINCE MANY STATIONS/SITES DO NOT HAVE MAXIMUM/MINIMUM THESE TEMPERATURES WERE SELECTED BY SCANNING THE HOURLY OBSERVATIONS FOR THE HIGHEST AND LOWEST VALUES.

STATISTICS DO NOT INCLUDE INCOMPLETE MONTHS.

FOUR OR MORE COMPLETE MONTHS ARE REQUIRED FOR COMPUTING

##### EXTREME MAXIMUM AND MINIMUM VALUES

DATA DERIVED FROM EXTRACTING THE HIGH AND LOW TEMPERATURES FROM THE HOURLY OBSERVATIONS.

PRESENTED ARE THE HIGHEST (LOWEST) TEMPERATURE FOR THE MONTH FOR EACH YEAR.

ALSO PRESENTED ARE STATISTICAL VALUES WITH THE SAME LIMITATIONS MENTIONED ABOVE.

AN ASTERISK INDICATES AN INCOMPLETE MONTH.

##### MEANS AND STANDARD DEVIATIONS FOR WYB BULB (WET BULB AND DEW POINT) TEMPERATURES

DATA DERIVED FROM HOURLY OBSERVATIONS.

DATA PRESENTED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PRESENTED ARE MEANS, STANDARD DEVIATION AND OBSERVATION COUNTS.

##### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE OF RELATIVE HUMIDITY

DATA DERIVED FROM HOURLY OBSERVATIONS.

SUMMARIZED BY THE STANDARD 3-HOUR TIME GROUPS BY MONTH, MONTHLY AND ANNUALLY (ALL YEARS COMBINED).

PERCENTAGE VALUES PRESENTED IN 10 DEGREE INCREMENTS OF RELATIVE HUMIDITY.

ALSO PRESENTED ARE THE MEAN VALUES AND OBSERVATION COUNTS.



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAC

JOY-PULB TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 275750 STATION NAME: KAZAN, USSR

PERIOD OF RECORD: 77-87

HOURS LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02	MEAN	10.4	7.6	19.2	35.4	50.2	57.5	61.1	57.8	44.9	30.7	25.8	11.0	35.9
	SD	14.247	11.194	11.026	8.717	8.515	8.254	5.813	5.769	5.676	7.858	9.429	13.876	20.792
	TOT OBS	299	273	299	292	304	297	306	305	296	304	288	293	3552
03-05	MEAN	10.7	7.5	18.4	34.8	48.5	55.6	59.7	56.6	44.4	26.3	26.4	16.2	35.2
	SD	14.476	11.610	11.751	8.377	8.286	8.165	5.832	6.498	6.710	7.415	9.596	13.947	20.326
	TOT OBS	302	277	303	295	305	292	306	304	290	306	291	302	3573
06-08	MEAN	9.8	7.0	15.9	33.5	49.2	57.0	60.9	55.9	40.5	25.2	25.2	15.3	34.6
	SD	14.430	11.259	12.236	8.478	8.417	8.134	5.429	6.506	6.714	7.577	9.674	14.471	21.091
	TOT OBS	292	273	304	299	301	293	302	302	293	297	298	266	3528
09-11	MEAN	9.0	6.4	17.6	37.5	56.4	62.8	67.6	62.6	51.6	37.2	25.9	15.6	38.8
	SD	14.453	12.157	11.640	9.682	10.046	9.666	6.714	7.697	7.354	7.320	9.264	14.444	23.427
	TOT OBS	272	281	275	285	306	294	307	303	296	301	283	278	3450
12-14	MEAN	11.0	10.3	23.8	42.4	61.4	66.7	71.5	67.6	50.8	40.3	27.3	16	41.7
	SD	13.235	9.456	10.035	11.096	11.299	10.742	7.578	8.935	9.058	8.165	8.712	13.371	24.174
	TOT OBS	286	274	297	294	300	296	302	301	295	298	290	298	3531
15-17	MEAN	10.4	14.1	26.5	43.7	63.3	68.0	72.8	69.1	57.1	41.5	27.3	16.1	42.8
	SD	12.976	9.123	9.293	11.469	11.265	10.772	7.957	9.295	9.164	8.685	8.542	13.101	24.289
	TOT OBS	294	273	296	294	305	290	299	304	294	306	292	362	3559
18-20	MEAN	10.8	11.8	24.1	42.0	61.5	66.7	71.0	66.5	53.7	38.4	26.4	15.7	40.9
	SD	13.630	10.044	9.583	10.712	10.891	10.127	7.612	8.689	8.376	7.702	9.078	13.035	24.093
	TOT OBS	293	273	302	292	297	296	305	303	294	300	289	303	3548
21-23	MEAN	10.5	10.8	21.7	38.1	54.3	60.7	64.7	60.5	50.2	37.2	26.1	15.0	37.6
	SD	13.464	10.438	10.219	9.184	9.279	8.697	6.362	7.124	6.497	7.993	9.060	13.794	21.837
	TOT OBS	303	274	306	294	305	293	307	303	294	297	297	306	3579
ALL	MEAN	10.0	10.5	20.9	38.5	55.6	61.8	66.2	62.1	51.5	38.0	26.3	15.8	38.4
	SD	13.979	11.009	11.305	10.416	11.302	10.457	6.314	9.174	8.471	8.094	9.181	13.707	22.739
HOURS	TOT OBS	2346	2173	2382	2335	2423	2351	2434	2426	2373	2407	2318	2383	28320



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/AFM

AIR-FIELD TEMPERATURES, DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 27550 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-87

HOURS	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
151														
1	MEAN	10.1	9.1	10.0	13.3	15.4	18.2	17.9	14.7	10.7	7.4	2.3	10.4	10.0
1	SD	19.119	19.119	10.634	7.634	7.378	7.450	4.961	5.703	5.154	7.662	9.287	13.482	19.383
1	TOT OBS	298	271	296	260	303	296	307	304	292	303	268	295	3531
3-5	MEAN	10.4	9.1	17.6	13.2	14.6	10.5	17.3	14.2	10.6	7.4	2.7	10.9	10.8
3-5	SD	14.214	11.475	11.575	7.842	7.458	7.575	5.091	5.699	5.197	7.264	9.405	13.741	19.290
3-5	TOT OBS	298	271	301	292	304	291	306	304	296	306	299	299	3555
6-8	MEAN	9.1	7.7	10.5	11.8	15.3	12.4	10.0	13.6	10.2	7.3	2.7	14.6	10.0
6-8	SD	14.252	11.775	11.971	7.935	7.501	7.604	4.862	5.805	5.150	7.346	9.472	14.078	19.939
6-8	TOT OBS	298	271	302	296	301	292	295	303	297	293	267	295	3508
9-11	MEAN	10.4	9.1	17.0	10.0	18.6	15.9	11.1	17.1	10.4	7.4	2.4	15.3	10.7
9-11	SD	14.419	12.790	11.346	8.274	7.986	7.983	5.119	5.873	5.154	7.138	9.072	14.222	20.796
9-11	TOT OBS	298	271	271	290	306	293	307	301	295	300	292	275	3431
12-14	MEAN	10.1	11.7	22.4	17.7	10.5	17.1	10.0	14.5	10.1	7.4	2.4	10.1	10.0
12-14	SD	13.177	9.775	7.589	9.477	8.113	7.993	5.152	6.212	5.150	7.455	8.544	13.262	20.184
12-14	TOT OBS	298	271	295	294	299	293	300	300	294	293	267	294	3506
15-17	MEAN	10.1	10.4	20.0	10.4	11.1	17.6	10.4	15.7	10.6	7.4	2.4	15.0	10.0
15-17	SD	12.792	8.775	8.317	8.575	7.822	7.828	5.223	5.812	5.171	7.670	8.475	12.957	19.890
15-17	TOT OBS	298	271	296	293	303	288	296	304	299	301	291	300	3536
18-20	MEAN	10.1	11.2	20.0	17.9	11.0	17.4	10.0	15.3	10.3	7.4	2.6	15.2	10.0
18-20	SD	13.311	9.815	9.167	8.546	8.017	7.555	5.244	5.948	5.157	7.383	8.815	12.889	20.406
18-20	TOT OBS	296	276	299	291	296	292	304	300	294	297	269	301	3527
21-23	MEAN	10.1	10.1	20.0	15.4	17.7	15.2	10.7	16.0	10.4	7.4	2.5	14.7	10.0
21-23	SD	13.757	10.204	9.984	9.039	7.514	7.456	4.946	5.549	5.154	7.612	8.945	13.655	19.812
21-23	TOT OBS	298	274	301	297	303	293	306	303	297	295	295	300	3547
ALL	MEAN	10.1	10.1	17.9	13.4	15.0	15.3	10.0	14.4	10.1	7.4	2.6	15.4	10.0
ALL	SD	13.795	10.711	10.427	8.465	8.118	7.905	5.443	6.113	5.492	7.553	9.015	13.523	20.022
FOUR	TOT OBS	299	276	296	297	2415	2333	2420	2421	2456	2390	2308	2359	28141



GLOBAL CLIMATOLOGY BRANCH  
USAF/ATC  
AIR WEATHER SERVICE/MAC

JLW-POINT TEMPERATURES DEG F FROM  
HOURLY OBSERVATIONS

MEANS AND STANDARD DEVIATIONS

STATION NUMBER: 270950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-87

HOURS LST	STATS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-05	MEAN	7.7	6.7	15.3	24.7	40.0	49.9	55.4	52.2	44.5	33.3	23.1	12.6	31.0
	SD	15.271	11.442	11.545	8.809	8.623	8.350	5.512	5.914	6.344	8.484	10.345	14.752	19.875
	TOT OPS	298	271	298	293	303	296	303	304	282	303	288	295	3531
06-05	MEAN	7.3	6.1	14.9	30.1	40.3	49.7	55.6	52.3	44.0	33.9	23.6	13.2	31.2
	SD	15.471	12.222	12.471	8.819	8.575	8.356	5.505	5.845	6.243	8.375	10.475	14.970	19.921
	TOT OPS	298	277	301	292	304	291	306	304	286	306	299	294	3555
6-05	MEAN	6.5	4.4	13.0	28.8	41.0	50.3	56.0	51.8	43.8	32.5	22.5	11.9	30.4
	SD	15.512	12.996	12.693	8.707	8.347	8.559	5.176	5.867	6.255	8.305	10.512	15.328	20.494
	TOT OPS	291	270	304	298	301	292	298	303	287	293	287	295	3508
09-11	MEAN	6.7	5.2	14.0	30.5	40.2	50.0	56.6	52.9	43.4	33.0	23.1	12.5	31.7
	SD	15.713	12.349	12.096	8.776	9.842	9.411	5.742	6.178	6.561	8.342	10.161	15.415	20.473
	TOT OPS	271	249	271	282	306	293	307	301	295	300	242	275	3431
12-14	MEAN	7.5	7.7	19.2	31.2	39.3	49.4	55.3	51.4	44.5	34.2	23.6	12.9	31.5
	SD	14.277	10.836	10.788	8.829	10.388	9.554	6.871	7.302	7.272	8.468	9.844	14.594	19.294
	TOT OPS	294	273	295	294	299	293	300	300	284	293	287	294	3506
15-17	MEAN	6.4	3.8	13.5	30.9	38.7	49.1	55.1	50.7	44.3	33.9	23.6	12.4	31.4
	SD	14.176	10.174	10.426	9.000	10.270	9.715	6.813	6.974	7.179	8.675	9.746	14.262	18.874
	TOT OPS	291	273	296	293	303	288	296	304	287	303	291	300	3536
18-21	MEAN	7.0	7.1	18.2	31.9	40.3	49.9	55.7	51.8	45.2	33.4	23.3	12.2	31.5
	SD	14.726	10.904	10.602	9.293	10.300	9.397	6.750	6.953	6.890	8.479	9.898	14.055	19.696
	TOT OPS	296	276	299	291	296	292	304	302	294	297	289	301	3527
21-23	MEAN	7.1	6.3	17.0	31.1	40.8	50.7	56.1	52.4	44.5	33.2	23.3	11.8	31.3
	SD	14.274	11.736	11.171	9.001	6.973	8.687	5.810	5.947	6.392	8.500	10.110	14.812	19.966
	TOT OPS	290	274	301	297	303	293	306	302	287	285	295	300	3547
ALL	MEAN	7.1	6.6	15.3	30.5	40.1	49.9	55.7	51.9	44.6	33.5	23.3	12.4	31.3
	SD	15.202	11.643	11.697	9.962	9.460	9.016	6.267	6.417	6.672	8.383	10.128	14.758	19.829
HOURLY	TOT OPS	2949	2145	2363	2317	2415	2338	2400	2421	2096	2390	2308	2359	28141



GLOBAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MAL

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 275957 STATION NAME: KAZAN, USSR

PERIOD OF RECORD: 79-87  
MONTH: JAN

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN										MEAN [RELATIVE HUMIDITY]	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	NUM OBS		
JAN	00-02	100.0	100.0	100.0	100.0	99.7	98.7	93.6	75.5	40.3	85.8	298	
	03-05	100.0	100.0	100.0	100.0	100.0	100.0	95.0	76.5	43.3	86.5	298	
	06-08	100.0	100.0	100.0	100.0	99.7	99.3	96.2	74.1	41.9	86.5	291	
	09-11	100.0	100.0	100.0	99.6	99.6	98.9	94.9	74.1	47.3	86.1	271	
	12-14	100.0	100.0	100.0	100.0	100.0	99.3	93.5	71.8	37.4	85.4	294	
	15-17	100.0	100.0	100.0	100.0	100.0	98.7	90.0	69.3	33.3	84.2	300	
	18-20	100.0	100.0	100.0	99.7	99.7	99.3	93.6	68.9	39.9	85.7	291	
	21-23	100.0	100.0	100.0	100.0	99.7	98.3	93.7	74.3	34.3	85.5	303	
	TOTALS	100.0	100.0	100.0	99.9	99.8	99.1	93.8	73.1	40.0	85.6	2349	



GLOBAL CLIMATOLOGY BRANCH  
USAF/CLAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 27090 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: FEB

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE HUMIDITY	NUM
FEB	00-05	100.0	100.0	100.0	100.0	100.0	98.9	92.3	73.1	37.3	85.4	271
	06-10	100.0	100.0	100.0	100.0	100.0	100.0	93.9	77.3	44.8	86.4	277
	11-15	100.0	100.0	100.0	100.0	100.0	99.6	90.3	77.6	40.3	86.6	272
	16-20	100.0	100.0	100.0	99.6	99.6	95.8	95.0	81.1	44.6	86.8	245
	21-23	100.0	100.0	100.0	99.6	99.6	98.0	86.4	58.6	34.4	82.1	272
	24-27	100.0	100.0	100.0	99.3	97.8	95.6	76.9	49.1	17.6	79.2	273
	28-29	100.0	100.0	100.0	100.0	99.6	98.2	82.6	59.1	20.4	81.6	276
	30-01	100.0	100.0	100.0	99.6	98.5	97.4	69.4	67.2	34.7	83.4	274
	TOTAL	100.0	100.0	100.0	99.8	99.4	98.3	89.1	67.9	37.4	83.9	2165



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 270950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN										MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	(RELATIVE HUMIDITY)	(HUMIDITY)	NUM OBS
MAR	00-07	100.0	100.0	100.0	100.0	100.0	99.0	88.9	65.1	36.2		84.8	298
	08-05	100.0	100.0	100.0	100.0	100.0	99.0	94.4	73.6	47.5		87.1	301
	06-05	100.0	100.0	100.0	100.0	99.3	99.3	95.7	82.1	57.2		88.2	302
	09-11	100.0	100.0	100.0	100.0	100.0	98.2	92.6	71.2	48.0		85.7	271
	12-14	100.0	100.0	100.0	100.0	99.0	94.2	79.7	49.0	20.3		79.6	295
	15-17	100.0	99.7	99.7	99.3	95.9	87.8	66.2	39.9	15.0		75.9	296
	20-21	100.0	100.0	100.0	99.7	97.0	94.3	79.6	45.8	20.7		79.0	295
	21-23	100.0	100.0	100.0	100.0	99.7	97.3	84.4	57.1	29.2		82.5	301
TOTALS		100.0	100.0	100.0	99.9	98.9	96.1	85.2	60.5	32.7		82.9	2362



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MFC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 27595 STATION NAME: KAZAN, USSR

PERIOD OF RECORD: 78-87  
MONTHS: APR

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN										MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	[RELATIVE HUMIDITY]	NUM	
APR	10-00	100.0	100.0	100.0	99.7	98.3	92.8	76.6	55.2	29.3	60.7	291	
	13-00	100.0	100.0	100.0	100.0	99.7	97.5	83.7	62.0	34.4	83.3	292	
	16-00	100.0	100.0	100.0	100.0	99.7	96.2	84.4	63.9	35.4	83.9	298	
	19-00	100.0	100.0	100.0	99.9	92.9	80.9	63.1	46.5	23.4	76.3	282	
	22-00	100.0	99.7	97.3	91.8	80.6	61.9	46.6	30.6	17.7	67.5	294	
	01-00	100.0	100.0	93.5	80.1	74.1	54.6	36.5	23.9	17.0	64.1	293	
	04-00	100.0	99.7	94.3	97.6	83.5	68.0	48.1	29.2	15.8	69.6	291	
	07-00	100.0	100.0	100.0	95.7	96.2	83.6	67.6	44.7	27.3	77.1	267	
	TOTALS	100.0	99.9	98.6	95.5	90.6	79.5	63.3	44.6	27.4	75.3	2317	



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 275951 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 78-87  
MONTH: MAY

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	10-02	100.0	100.0	100.0	97.7	87.5	68.3	46.9	25.1	11.6	69.7	303
	3-05	100.0	100.0	100.0	99.3	96.4	80.6	62.5	37.5	17.2	74.4	304
	6-08	100.0	100.0	100.0	100.0	97.0	61.7	59.8	33.9	11.2	74.1	301
	9-11	100.0	100.0	98.0	79.1	58.5	40.9	23.0	11.4	4.6	57.0	300
	12-14	100.0	97.7	79.6	55.5	36.1	24.4	15.1	9.7	4.3	47.8	299
	15-17	100.0	95.7	75.6	45.5	28.1	18.3	9.9	6.6	2.6	43.9	303
	18-20	100.0	79.7	64.8	61.1	38.5	25.3	15.9	7.4	2.4	48.9	296
	21-01	100.0	100.0	99.3	92.4	73.6	48.5	33.0	18.0	6.5	62.5	303
	TOTALS	100.0	94.8	92.2	79.8	64.5	43.6	33.3	18.6	6.5	59.8	2415



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MNL

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 275957 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 72-87  
MONTH: JUN

MONTH	HOURS (LETT)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN										MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%			
JUN	01-02	100.0	100.0	100.0	100.0	95.9	85.5	70.9	50.0	31.6	79.2	290	
	03-05	100.0	100.0	100.0	99.7	98.6	91.4	79.4	58.1	38.8	51.5	292	
	06-08	100.0	100.0	100.0	99.7	98.3	91.4	75.3	52.4	35.4	79.2	292	
	09-11	100.0	100.0	99.6	94.2	78.5	60.1	36.2	18.9	7.2	55.2	293	
	12-14	100.0	99.7	94.5	74.5	57.0	37.9	24.2	13.7	5.8	56.7	293	
	15-17	100.0	99.7	90.6	71.2	52.8	37.2	20.1	10.4	5.4	54.2	288	
	18-20	100.0	100.0	94.5	75.4	61.3	42.5	26.7	15.1	4.5	57.7	292	
	21-23	100.0	100.0	99.3	97.6	87.4	71.7	54.9	33.4	11.6	71.3	293	
	TOTALS	100.0	99.9	97.2	86.9	78.7	64.7	48.5	31.4	12.4	63.0	2338	



GLOBAL CLIMATOLOGY BRANCH  
NSAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 27000 STATION NAME: KAZAL USK

PERIOD OF RECORD: 70-87  
MONTH: JUL

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN	TOTAL
		1%	2%	30%	40%	50%	60%	70%	80%	90%	[RELATIVE HUMIDITY]	NUM OBS
JUL	1-24	100.0	100.0	96.3	99.7	99.0	95.7	84.9	62.0	3.8	82.2	332
	3-24	100.0	100.0	100.0	99.7	99.0	97.7	92.8	76.8	42.0	86.6	300
	6-18	100.0	100.0	100.0	100.0	100.0	97.3	89.2	69.5	19.5	84.3	296
	9-14	100.0	100.0	100.0	99.7	89.3	74.9	45.3	22.8	5.6	69.2	307
	12-14	100.0	99.7	97.7	85.0	67.7	40.0	24.0	11.0	2.7	58.6	300
	15-17	100.0	85.7	9.6	81.1	60.8	35.8	18.0	8.8	0.7	55.0	296
	19-21	100.0	100.0	97.7	86.8	70.4	47.7	28.6	14.1	8.3	60.8	304
	22-23	100.0	100.0	99.3	99.0	95.4	83.3	65.7	37.3	11.4	74.8	300
	TOTALS	100.0	99.9	98.8	94.1	85.2	71.6	56.2	37.8	14.4	71.6	2420



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM FOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 279907 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: AUG

MONTH	FOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN										MEAN RELATIVE HUMIDITY	TOTAL NUM OBS
		10%	20%	30%	40%	50%	60%	70%	80%	90%			
AUG	10-00	100.0	100.0	100.0	99.7	98.0	92.4	66.2	59.5	29.7	42.5	304	
	10-05	100.0	100.0	100.0	100.0	99.4	96.1	91.8	75.1	42.4	46.2	304	
	10-10	100.0	100.0	100.0	100.0	99.0	97.4	94.7	77.2	39.7	36.6	303	
	10-15	100.0	100.0	100.0	97.7	93.7	78.1	59.5	27.9	7.0	71.2	301	
	10-20	100.0	95.0	87.3	84.3	64.3	45.0	22.3	9.7	0.3	53.4	300	
	10-25	100.0	100.0	93.4	77.0	51.6	34.2	21.1	11.4	2.6	54.5	304	
	10-30	100.0	100.0	87.4	90.1	67.2	48.0	21.1	14.6	5.3	60.6	302	
	11-05	100.0	100.0	99.7	99.7	95.4	86.9	66.2	39.7	14.5	76.3	303	
	TOTALS	100.0	100.0	98.5	94.1	83.5	72.3	58.6	39.3	18.2	72.1	2421	



JOURNAL CLIMATOLOGY BRANCH  
USAF/ETAC  
AIR WEATHER SERVICE/MTC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 27900 STATION NAME: KAZAN, USSR

PERIOD OF RECORD: 75-87  
MONTH: SEP

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN (RELATIVE HUMIDITY)	TOTAL NUM OBS
		1%	5%	10%	40%	50%	60%	70%	80%	90%		
SEP	00-01	100.0	100.0	100.0	99.7	97.9	96.3	90.3	71.7	40.1	85.4	282
	01-02	100.0	100.0	100.0	100.0	99.7	99.3	94.6	81.6	57.7	88.4	286
	02-03	100.0	100.0	100.0	100.0	99.7	99.7	96.0	86.1	66.2	89.7	287
	03-04	100.0	100.0	100.0	99.7	98.3	91.5	79.7	62.9	45.4	80.4	295
	04-05	100.0	100.0	98.6	94.4	84.5	63.7	45.4	27.1	17.0	68.0	284
	05-06	100.0	98.7	87.6	80.3	76.8	59.5	38.4	22.5	9.7	65.3	289
	06-07	100.0	100.0	99.3	97.5	92.6	81.7	64.6	38.7	19.1	74.6	284
	07-08	100.0	100.0	100.0	99.7	98.3	91.7	80.1	61.3	36.8	81.3	287
TOTALS		100.0	100.0	99.4	97.7	93.6	85.3	73.8	55.1	30.1	70.1	2296



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM FOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 27060 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 79-87  
MONTH: OCT

MONTH	FOURTH (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN										MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	(RELATIVE HUMIDITY)	NUM OBS	
OCT	00-02	100.0	100.0	100.0	100.0	100.0	98.7	95.4	84.2	44.5	97.9	303	
	03-05	100.0	100.0	100.0	100.0	100.0	98.7	96.1	85.9	57.8	89.3	306	
	06-08	100.0	100.0	99.7	99.7	99.7	99.0	96.6	89.1	58.0	90.2	292	
	09-11	100.0	100.0	100.0	100.0	100.0	99.7	94.0	75.0	40.0	86.8	300	
	12-14	100.0	100.0	100.0	100.0	98.0	88.4	68.3	47.1	24.0	78.2	292	
	15-17	100.0	100.0	100.0	99.0	95.0	79.5	64.0	42.2	19.1	75.4	303	
	18-20	100.0	100.0	100.0	99.7	98.7	95.6	85.9	63.3	29.6	82.8	297	
	21-23	100.0	100.0	100.0	100.0	99.0	98.0	92.9	76.9	35.9	85.7	295	
	TOTALS	100.0	100.0	100.0	99.8	98.8	94.7	86.7	70.5	38.9	84.5	2390	



JOINT CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 279900 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: NOV

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN										MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	RELATIVE HUMIDITY	NUM	OBS
NOV	10-12	100.0	100.0	100.0	100.0	100.0	100.0	97.0	85.9	57.2	89.6	286	
	13-15	100.0	100.0	100.0	100.0	100.0	99.3	97.6	86.2	59.1	99.6	289	
	16-18	100.0	100.0	100.0	100.0	99.7	97.3	96.9	85.4	53.3	89.6	287	
	19-21	100.0	100.0	100.0	97.6	99.6	99.3	97.5	86.0	56.4	99.3	282	
	22-24	100.0	100.0	100.0	97.7	99.3	98.3	92.7	75.2	44.3	86.0	267	
	15-17	100.0	100.0	100.0	100.0	99.7	98.5	91.1	74.6	38.8	86.0	291	
	18-20	100.0	100.0	100.0	100.0	100.0	99.7	97.2	79.9	47.6	88.1	289	
	21-23	100.0	100.0	100.0	100.0	100.0	99.7	97.3	85.4	57.6	99.1	295	
TOTALS		100.0	100.0	100.0	99.9	99.8	99.2	95.9	82.4	51.2	88.4	2336	



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-86  
MONTH: DEC

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN										MEAN [RELATIVE HUMIDITY]	TOTAL NUM OBS
		1%	5%	10%	40%	50%	60%	70%	80%	90%			
DEC	1-12	100.0	100.0	100.0	100.0	100.0	98.6	94.2	78.0	47.5	87.3	295	
	13-25	100.0	100.0	100.0	100.0	100.0	99.0	95.3	80.9	50.8	87.6	299	
	26-38	100.0	100.0	99.7	99.0	99.0	97.6	92.2	76.6	47.5	86.6	295	
	39-51	100.0	100.0	100.0	99.6	99.3	98.9	93.6	79.3	50.5	87.2	275	
	52-64	100.0	100.0	100.0	99.7	99.7	99.3	93.6	70.7	40.5	85.5	294	
	65-77	100.0	100.0	100.0	100.0	99.7	99.0	91.0	71.0	41.7	85.4	300	
	78-90	100.0	100.0	100.0	100.0	99.7	99.0	91.4	74.8	47.2	86.0	301	
	91-103	100.0	100.0	100.0	100.0	100.0	98.7	94.3	77.3	49.0	86.9	300	
	TOTALS	100.0	100.0	100.0	99.8	99.7	98.9	93.2	76.2	46.3	86.6	2355	



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
FROM HOURLY OBSERVATIONS

RELATIVE HUMIDITY

STATION NUMBER: 275950 STATION NAME: KAZAN USSR

PERIOD OF RECORD: 77-P7  
MONTH: ALL

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN	TOTAL
		10%	20%	30%	40%	50%	60%	70%	80%	90%	[RELATIVE HUMIDITY]	NUM OBS
JAN	ALL	100.0	100.0	100.0	99.9	99.8	99.1	93.9	73.1	49.0	85.6	2349
FEB		100.0	100.0	100.0	99.9	99.4	98.3	89.1	67.2	27.8	83.9	2165
MAR		100.0	100.0	100.0	99.9	98.9	96.1	85.2	60.5	30.7	82.9	2363
APR		100.0	99.9	98.6	96.5	90.6	79.5	63.3	44.6	23.4	75.3	2317
MAY		100.0	98.7	92.2	79.6	64.5	48.6	33.3	19.6	6.9	59.8	2415
JUN		100.0	97.9	97.2	89.9	78.7	64.7	48.5	31.4	17.4	68.0	2338
JUL		100.0	99.9	98.8	94.1	85.2	71.6	56.2	37.8	14.6	71.6	2420
AUG		100.0	100.0	98.5	94.1	83.5	72.3	58.6	39.3	16.2	72.1	2421
SEP		100.0	100.0	99.4	97.7	93.5	85.3	73.8	55.1	29.6	79.1	2296
OCT		100.0	100.0	100.0	99.8	98.8	94.7	86.7	70.5	50.9	84.5	2390
NOV		100.0	100.0	100.0	99.9	99.8	99.2	95.9	92.4	81.2	88.4	2308
DEC		100.0	100.0	100.0	99.8	99.7	98.8	93.2	76.2	47.7	86.6	2359
TOTALS		100.0	99.9	98.7	95.9	91.0	84.0	73.1	54.6	29.0	78.2	28141



PPPPPPPP	AAAAAA	RRRRRRRR	TTTTTTTT	FFFFFFFF
PPPPPPPP	AAAAAAAA	RRRRRRRR	TTTTTTTT	FFFFFFFF
PP PP	AA AA	RR RR	TT	FF
PP PP	AA AA	RR RR	TT	FF
PPPPPPPP	AA AA	RRRRRRRR	TT	FFFFF
PPPPPPPP	AAAAAAAAAA	RRRRRRRR	TT	FFFFF
PP	AAAAAAAAAA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF
PP	AA AA	RR RR	TT	FF

DATA NOT AVAILABLE



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